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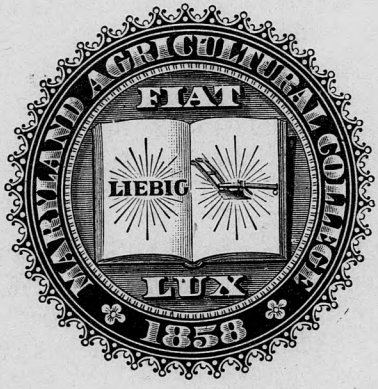

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ADDRESS

Chemical Department, Maryland Agricultural College,

COLLEGE PARK, MD.

ANALYSIS OF

COMMERCIAL FERTILIZERS SOLD IN MARYLAND

BY THE CHEMICAL DEPARTMENT OF THE

MARYLAND AGRICULTURAL COLLEGE.

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The tables on the following pages are made up of the results of the analysis of fertilizers made at the College from August, 1900, to January, 1901, inclusive; the most of the samples were collected during September, October and November.

The majority of the samples analyzed are obtained by the different members of the laboratory force while acting as sampling agents, many of the samples being taken while the goods are in transit, on vessels, wharves, cars, at stations, from farmers' wagons, barns, etc. It is impossible for us to analyze all the samples we collect; duplicates are generally omitted.

When a sample has been sent in by a farmer his name appears after the place of sampling. No sample is analyzed unless fully described on blanks furnished by this Department.

No samples are accepted from manufacturers or their agents under any circumstances.

The figures in the columns headed "Ammonia," "Potash" and "Phosphate Acid" are percentages, or pounds per hundred. To get pounds per ton multiply the figures by 20. The columns headed "Found" contain the results found by analysis; those headed "Guaranteed" contain the essential part of the guarantee as stamped on the bags.

The columns headed "No." contain the respective numbers by which the samples are known in the laboratory. In writing to the Chemical Department in regard to analysis the number should always be given. The samples are numbered consecutively on the books of the office, but are arranged alphabetically for publication, which accounts for the mixing up of the numbers.

"The "comparative value found" and the "comparative value guar-

anteed" are calculated, the former from the analysis found, the latter from the analysis guaranteed on the bags, using the following schedule.

In Mixed Fertilizer:	
For Nitrogen, calculated as Ammonia	15 cts. per pound.
" Potash (K_2O), in forms free from muriate	6 " " "
" Potash (K_2O), as muriate	5 " " "
" Available Phosphoric Acid	5 " " "
" Insoluble Phosphoric Acid	2 " " "
" " " " when from S. C. Rock	1 " " "
In Dissolved S. C. Rock:	
Available Phosphoric Acid	4 " " "
In Ground Bone:	
For Nitrogen, calculated as Ammonia, in "Fine" Bone	14 cts. per pound.
" Nitrogen, calculated as Ammonia, in "Fine Medium" Bone	12 " " "
" Nitrogen, calculated as Ammonia, in "Medium" Bone	10 " "
" Nitrogen, calculated as Ammonia, in "Coarse" Bone	8 " " "
" Phosphoric Acid in "Fine" Bone	5 " " "
" " " " "Fine Medium" Bone	4 " " "
" " " " "Medium" "	3 " " "
" " " " 'Coarse" "	2 " " "
In Tankage and Ground Fish:	
For Nitrogen, calculated as Ammonia	12 " " "
" Phosphoric Acid	3 " " "

In using the above schedule *all fertilizers containing less than 1 per cent. of ammonia will be given the rock valuation of 4 cents per pound on the available phosphoric acid.*

The "comparative values" given in the table are not claimed to be the proper prices to be paid for the various fertilizers at the place of sale or use; this varies considerably, depending on the market prices of the ingredients, freight, commissions, size of order, cash or credit, &c.

A mechanical analysis is made of ground bones, the results will be found in a separate table, following the table of chemical analysis. The mechanical analysis shows the fineness of the bone, and is determined by sifting through a series of sieves with circular perforations (instead of the usual wire) as follows:

Bone passing through 1-50 inch is "Fine."
Between 1-50 and 1-25 inch is "Fine-Medium."
Between 1-25 and 1-12 inch is "Medium."
All which will not pass the 1-12 inch is "Coarse."

Each grade is given its own valuation on both phosphoric acid and ammonia; the chemical composition of each grade being assumed to be uniform.

The finer bone is ground the quicker it dissolves in the soil. Guarantees should be as simple as possible. In Dissolved S. C. Rock, or acid phosphate, all that is needed is the available phos. acid, which should be not less than 14 per cent.

In mixtures of Acid Phosphate and Kainit or other Potash Salt,

the per cent of Potash should be added, making the essential guaranteed analysis as follows:

Available phosphoric acid.....
Potash.....

In complete fertilizers the ammonia or nitrogen is added, giving:

Available phosphoric acid.....
Potash.....
Ammonia.....

Insoluble Phos. Acid may be added. The "Total" is simply the sum of the available and insoluble. (The "available" is the sum of the "soluble" and "reverted" phos. acid.)

The guaranteed analysis of ground bone should mention only the total Phos. acid and ammonia (or nitrogen).

"Bone Phosphate" is simply the phos. acid mutiplied by 2 1-5 and given over again in that form.

It is unlawful to print a maximum guarantee on fertilizers in Maryland. The fine for doing so is $100 for the first offense.

It is unlawful to sell any brand of commercial fertilizer before the license for the same has been obtained from the Comptroller. When the license is paid by the manufacturer it is not necessary for his agents to obtain another license for the same brands. If, however, the manufacturer resides out of the State, and does not pay the license, each agent selling the goods or offering the same for sale is held responsible for the license.

Sliding-scale guarantees (the use of a maximum as well as a minimum guarantee), as "Ammonia 1 to 3 per cent" is unlawful. The penalty for the first offence is $100 fine.

FERTILIZER ANALYSES.

No.	Name and Address of Manufacturer.	Name of Fertilizer.	Place of Sampling.
7907	Alexandria Fertilizer and Chem. Co., Alexandria, Va.	Dissolved S. C. Rock....	Hancock.....
7908	" " "	Ground Animal Bone...	Hancock.....
7766	A. Anderson & Co., Mt. Airy, Md.	Harvest Queen Guano...	Mt. Airy.....
7816	Armour Fertilizing Works, Chicago, Ill.	All Soluble.	Glenarm.....
7817	" " "	Ammoniated Bone, with Potash.	Glenarm.....
7942	" " "	Bone and Dissolved Bone with Potash.	Baltimore.....
7721	" " "	Bone Meal..... ...	Baltimore.....
7997	" " "	*Flower Food.....	Baltimore.....
7866	" " "	Fruit and Root.....	Baltimore.....
7703	" " "	Grain Grower.....	Baltimore.....
7892	" " "	Grain Grower.....	Easton..... (I. A. Barber.)
7740	" " "	Phosphate and Potash No. 1.	Baltimore.....
7385	" " "	Phosphate and Potash No. 1.	Greensboro..... (W. E. Orrell.
7893	" " "	Phosphate and Potash No. 1.	Easton..... (I. A. Barber.)
7941	" " "	Phosphate and Potash No. 2.	Baltimore.....
7767	" " "	Special Compound.....	Monrovia.....
7715	" " "	Star Phosphate.....	Baltimore.....
8265	" " "	Star Phosphate.....	Adamstown..... (J. F. Thomas.)
7909	" " "	Tankage.....	Keedysville.....
7815	" " "	Wheat, Corn and Oats Special.	Glenarm.....
7785	Baltimore Pulverizing Co., Baltimore, Md.	Farmer's Favorite Fertilizer.	Germantown.....
7812	" " "	H. G. Wheat Compound.	Baltimore.....
7952	" " "	Penniman's Excelsior Fertilizer.	Baltimore.....

*Put up in 1 lb. and ½ lb. packages, by the Armour Packing Co., Kansas City.

No.	NITROGEN Calculated as AMMONIA.		POTASH, K_2O.		PHOSPHORIC ACID.					Comparative Value per Ton Found.	Comparative Value per Ton Guaranteed.
					Insoluble Found.	Available.		Total.			
	Found.	Guaranteed.	Found.	Guaranteed.		Found.	Guaranteed.	Found.	Guaranteed.		
7907	.....	.....	.....	.....	1.13	14.74	14	15.87	.....	$11.79	$11.20
7908	2.72	3	.....	.....	.....	.....	.....	25.66	23	.....	.....
7766	1.17	1	1.51	1	5.02	8.65	9	13.67	.....	15.68	13.40
7816	3.39	3.50	4.84	4	6.10	8.03	8	14.13	10	25.48	23.30
7817	3.61	3	2.24	2	1.42	6.40	6	7.82	8	20.04	17.80
7942	3	2	1.85	3	7.62	15.39	9	23.01	18	29.29	21.60
7721	3.72	3	.....	.....	.....	.....	.....	25.44	22	32.12	.....
7997	8.40	8.50	13.26	12	.10	14.20	14	14.30	.....	55.35	53.90
7866	2.17	2	4.21	5	1.74	8.54	8	10.28	10	19.96	19.80
7703	2.12	2	2.12	2	2.00	8.02	8	10.02	10	17.30	16.80
7392	2.44	2	2.09	2	5.02	7.95	8	12.97	10	18.48	16.80
7740	.....	.....	2.49	2	.98	10.68	10	11.66	.....	11.23	10.40
7385	.....	.....	3.47	2	1.47	11.68	10	13.15	.....	13.10	10.40
7393	.....	.....	1.69	2	1.95	10.99	10	12.94	.....	10.87	10.40
7941	.....	.....	5.19	5	.76	8.25	8	9.01	.....	11.94	11.40
7767	.72	.50	1.09	1	2.06	8.91	8	10.97	.....	10.79	8 90
7715	.....	.....	.....	.....	1.36	14.19	14	15.55	.....	11.35	11.20
8265	.....	.....	.....	.....	1.22	14.30	14	15.52	16	11.44	11.20
7909	7.73	8	.....	.....	.....	.....	.....	10.67	.....	24.95	19 20
7815	2.03	1	2.18	1	.90	7.44	8	8.34	10	16.07	12.80
7785	1.31	1	2.45	2	2.15	7.69	6.50	9.84	.....	14.93	11.50
7812	2.16	2	1.54	2	2.52	8.66	8	11.18	.....	17.69	16.00
7952	.....	.....	3.88	5	1.77	9.92	10	11.69	.....	11.87	13.00

No.	Name and Address of Manufacturer.	Name of Fertilizer.	Place of Sampling.
7730	Baltimore Pulverizing Co., Baltimore, Md.	Penniman's Special Guano, No. 1.	Baltimore
7705	" " "	Pure Animal Raw Bone Meal.	Baltimore
7784	" " "	S. C. Bone	Germantown
7870	" " "	Special Fall Mixture	Baltimore
7811	" " "	Truckers' Choice	Baltimore
7956	Baltimore Seed and Implement Co., Baltimore, Md.	Standard Bone Phosphate.	Baltimore
7788	Baugh & Sons Company, Baltimore, Md.	Ammoniated Dissolved Animal Bone.	Gaithersburg
7809	" " "	Animal Bone and Potash Compound	Baltimore
8293	" " "	Animal Bone and Potash Compound.	Leonardtown
7753	" " "	Bone Meal	Ellicott City
7399	" " "	Complete Mixture	Crumpton (Alday Clements.)
7729	" " "	Double Eagle Phosphate	Baltimore
8269	" " "	Dissolved S. C. Rock	Kumps (E. F. Keefer.)
7787	" " "	Export Bone, with Potash.	Gaithersburg
7726	" " "	General Crop Grower	Baltimore
7789	" " "	Gen. Lobos Peruvian Guano.	Gaithersburg
7735	" " "	H. G. Acid Phosphate	Baltimore
7397	" " "	H. G. Acid Phosphate	Greensboro (Wm. Dulin.)
7376	" " "	H G. Tobacco and Truck Fertilizer.	Church Hill (W. H. Welch.)
8266	" " "	Kainit	Kumps (E. F. Keefer.)
8268	" " "	Muriate of Potash	Kumps (E. F. Keefer.)
7958	" " "	Peninsula Grain Producer.	Tilghmans
7819	" " "	Potato Fertilizer	Fallston

No.	NITROGEN Calculated as AMMONIA.		POTASH, K_2O.		PHOSPHORIC ACID.					Comparative Value per Ton Found.	Comparative Value per Ton Guaranteed.
					Insoluble Found.	Available.		Total.			
	Found.	Guaranteed.	Found.	Guaranteed.		Found.	Guaranteed.	Found.	Guaranteed.		
7730	1.23	1	1.63	1	1.80	6.88	8	8.68	.....	$12.92	$12.00
7705	3.82	3	.....	.....	.....	.....	.....	22.53	.....	27.49	.....
7784	.....	.....	.....	.....	1.20	14.74	14	15.94	.....	11.79	11.20
7870	.....	.....	1.05	2	.95	9.31	8	10.26	9	8.69	8.60
7811	2.89	3	1.03	3	2.66	9.48	8	12.14	.....	20.24	20.00
7956	1.23	2	4.66	4.50	3.70	5.63	7	9.33	8	15.46	17.90
7788	2.06	2	.....	.....	1.12	11.69	10	12.81	.....	18.32	16.00
7809	2.01	2	2.18	2	1.88	8.73	8	10.61	.....	17.69	16.00
8293	2.12	2	2.08	2	2.17	8.97	8	11.14	.....	18.28	16.00
7753	4.44	4.25	.....	.....	.....	.....	.....	21.42	21.50	30.64	.....
7399	2.68	2	4.21	4	1.04	9.35	10	10.39	.....	22.02	20.00
7729	2.21	2	1.26	1	1.93	9.33	8	11.26	.....	17.99	15.00
8269	.....	.....	.....	.....	.32	15.52	14	15.84	15	12.42	11.20
7787	2.58	2	2.26	2	6.76	8.40	.....	15.16	.....	21.10	.....
7726	1.34	1	1.52	1	1.09	9.01	8	10.10	.....	14.99	12.00
7789	3.51	3.50	3.69	2.50	9.56	14.78	12	24.34	.....	33.36	25.70
7735	.....	.....	.....	.....	1.28	14.39	14	15.67	.....	11.51	11.20
7397	.....	.....	.....	.....	1.16	15.58	14	16.74	15	12.46	11.20
7376	2.95	3	2.63	3	2.09	11.23	8	13.32	.....	23.54	17.00
8266	.....	.....	12.10	12	.....	.....	.....	.....	.....	.....	.....
8268	.....	.....	49.83	52	.....	.....	.....	.....	.....	.....	.....
7958	1.41	1	1.82	2	1.45	9.42	8	10.87	.....	16.02	13.00
7819	2.03	2	2.04	2	1.93	8.65	8	10.58	.....	17.55	16.00

No.	Name and Address of Manufacturer.	Name of Fertilizer.	Place of Sampling.
7780	Baugh & Sons Co., Baltimore, Md.	Pure Dissolved Animal Bone.	Taneytown
7712	" " "	Soluble Alkaline Super Phosphate.	Baltimore
7382	" " "	S. C. Rock.,	Taneytown (W. H. Flickinger.)
7379	" " "	Special Mixture	Millington (J. S. Newnam.)
8237	" " "	Special Mixture for Wheat	Westover (Albert Sudler.)
7759	" " "	Sullivan's Sure Success.	Mt. Airy
7739	" " "	Tankage	Baltimore
7381	" " "	Tankage	Taneytown (W. H. Flickinger.)
8267	" " "	Tankage	Kumps (E. F. Keefer.)
7786	" " "	The Old Stand By Raw Bone Super-Phos.	Gaithersburg
7728	" " "	Wheat Fertilizer for Wheat and Grass.	Baltimore
7918	Baker & Co., Winchester, Va.	Ammoniated Soluble Phosphate.	Baltimore
7938	Beck, Walker & Brown, Chestertown, Md.	Propagator Super-Phosphate	Chestertown
7962	" " "	Trustworthy Super Phosphate.	Crumpton
7939	" " "	Try Me Super-Phos phate.	Chestertown
7357	" " "	Try Me Super-Phosphate.	Chestertown
7769	A. D. Birely & Son, Ladiesburg, Md.	Ammoniated Bone Phosphate.	Walkersville
7768	" " "	Dissolved Bone	Walkersville
7779	" " "	Special Mixture for Wheat and Grass	Ladiesburg
7903	D. Blocher & Co., Gettysburg, Pa.	Ammoniated Soluble Bone Phosphate.	Half Way
7904	" " "	Dissolved Bone Phosphate.	Half Way
7901	" " "	Dissolved Raw Bone and Potash.	Downsville
7911	" " "	H. G. Super-Phosphate.	Half Way

No.	NITROGEN Calculated as AMMONIA.		POTASH, K_2O.		PHOSPHORIC ACID.					Comparative Value per Ton Found.	Comparative Value Per Ton Guaranteed.
					Insoluble Found.	Available.		Total.			
	Found.	Guaranteed.	Found.	Guaranteed.		Found.	Guaranteed.	Found.	Guaranteed.		
7780	2.91	2.50	.....	.....	3.52	15.59	13	19.11	.....	$25.73	$20.50
7712	.....	.....	4.10	2	.82	11.18	10	12.00	.....	13.20	10.00
7382	.....	.....	.....	.....	1.21	15.03	14	16.24	.....	12.02	11.20
7379	.....	.....	5.57	5	.77	12.04	12	12.81	.....	15.35	14.60
8287	2.50	2	6.27	6.50	1.46	9.71	9	11.17	.....	24.06	21.50
7759	2.38	2	3.56	3	1.25	9.60	8	10.85	.....	20.80	17.00
7739	6.90	.....	.....	.....	.....	.....	.....	5.10	.....	.....	19.62
7381	9.30	10	.....	.....	.....	.....	.....	9.50	.....	28.02	24.00
8267	10.01	10	.....	.....	.....	.....	.....	9.42	.....	29.67	24.00
7786	2.22	2	1.38	1	1.84	9.26	8	11.10	.....	18.04	15.00
7728	2.15	2	2.21	2	2.14	8.87	8	11.01	.....	18.39	16.00
7918	1.04	1	1.52	1	1 00	9.54	10	10.54	.....	14.58	14.40
7938	1.96	2	2.82	2.50	1.92	8.28	8	10.20	.....	17.75	16.50
7962	2.75	3	4.17	4	1.96	8.63	8	10.59	.....	21.83	21.00
7939	.....	.....	3.22	3	3.33	10.29	10	13.62	.....	12.12	11.40
7357	.....	.....	2.86	3	3.52	10.18	10	13.70	.....	11.70	11.40
7769	.73	.50	2.31	1	.95	8.34	8	9.29	.....	11.36	8.90
7768	2.20	2	.....	.....	2.85	10.24	10	13.09	.....	17.98	16.00
7779	.....	.....	2.01	2	.84	11.17	10	12.01	.....	11.12	10.00
7903	.75	.50	1.25	1.50	3.69	10.85	8	14.54	.....	12.92	9 80
7904	.....	.....	.....	.....	1.41	15.74	14	17.15	15	12.55	11.20
7901	2.09	2.50	2.68	2.50	2.05	11.76	12	13.81	.....	21.53	22.40
7911	1.25	1.50	1.40	1	4.16	10.06	9	14.22	.....	16.87	15.30

No.	Name and Address of Manufacturer.	Name of Fertilizer.	Place of Sampling.
7954	C. M. Bohanan & Co., Baltimore, Md.	Bone and Potash.	Baltimore.....
7861	" " "	S. C. Bone.	Baltimore.....
7850	James Bonday, Jr., Baltimore, Md.	Old Reliable Genuine German Kainit.	Baltimore.....
7833	Brumfield & Foster, Colora, Md.	Ammoniated Bone Phosphate.	Colora.....
7795	" " "	B. and F. Phosphate and Potash.	Barclay.....
7834	" " "	H. G. Acid Phosphate...	Colora.....
7792	Chemical Co. of Canton, Baltimore, Md.	Baker's Dissolved S. C Bone.	Gaithersburg.....
7790	" " "	Baker's Special Wheat, Corn & Grass Mixture	Gaithersburg.....
7821	" " "	Baker's Stand. Ground Bone	Fallston.....
7791	" " "	Dissolved Bone.	Gaithersburg.....
7881	" " "	Eagle Phosphate.	Thurmont.....
7947	" " "	Harrow Brand Crop Grower.	Baltimore.....
7927	" " "	Patron's Bone Mixture.	Greensboro.....
7823	" " "	Pure Raw Bone.	Bel Air.....
7856	" " "	Soluble Alkaline Bone.	Baltimore.....
7875	" " "	Soluble Bone and Potash.	Alesia.....
7869	Clarks Cove Fertz. Co. New York City.	King Phillip.	Baltimore.....
7951	E. A. Clendenin & Bro.. Colora, Md.	F. F. V. Farmer's Favorite Vegetator.	Baltimore.....
8307	" " "	N. S. National Standard Amm'd Phosphate.	Colora.....
7957	E. Frank Coe, New York.	H. G. Soluble Bone.	Ingleside.....
7711	F. P. Covey, Federalsburg, Md.	Standard Bone Phosphate.	Baltimore.....
7963	J. A. Cranston Co., Newport, Del.	Horse Shoe Soluble Bone and Potash.	Millington.....
7835	" " "	Horse Shoe Soluble Bone.	Colora.....

No.	NITROGEN Calculated as AMMONIA.		POTASH, K_2O.		PHOSPHORIC ACID.					Comparative Value per Ton Found.	Comparative Value per Ton Guaranteed.
					Insoluble Found.	Available.		Total.			
	Found.	Guaranteed.	Found.	Guaranteed.		Found.	Guaranteed.	Found.	Guaranteed.		
7954	.....	.....	2.53	2	1.60	10.39	11	11.99	.....	$11.16	$10.80
7861	.....	.....	.....	.....	1.82	14.90	14	16.72	.....	11.92	11.20
7850	.....	.....	12.68	12	....	.....	.....	.....	.....	.....	.....
7833	2.26	2	2.17	2	.46	8.70	8	9.16	.....	17.83	16.40
7795	.....	... .	2.26	2	.33	11.02	10	11.35	.....	11.15	10.00
7834	.....	.....	.....	.....	.46	14.68	14	15.14	.....	11.74	11.20
7792	.....	.....	.....	.....	1.21	14.98	14	16.19	15	11.98	11.20
7790	1.15	1	2.02	2	1.04	9.23	9	10.27	.....	15.12	14.00
7821	3.90	4	.....	.....	....	.....	.....	19.76	18	.....	.....
7791	2.04	2	....	.....	2.67	10.17	10	12.84	.....	17.36	16.00
7881	1.12	1	1.36	1	1.70	8.61	7	10.31	8	14.01	11.40
7947	1.19	1	1.33	1	1.71	8.33	8	10.04	12	13.91	13.60
7927	1.50	2	2.62	2.50	3.31	7.71	5	11.02	15	16.15	17.50
7823	4.79	4	.....	.....	.....	.....	.....	23.14	20	28.17	.....
7856	....	.....	3.37	3	1.77	12.15	12	13.92	.....	13.44	12.60
7875	.....	.....	2.09	2	1.45	10.01	10	11.45	12	10.39	10.40
7869	1.08	1	1.85	2	1.14	9.92	8	11.06	.....	15.47	13.00
7951	1.03	1	2.23	1	2.47	8.39	9	10.86	....	14.70	13.40
8307	2.05	2	1.69	2	2.73	11.25	10	13.98	.....	20.18	19.20
7957	....	.....	.....	.....	3.42	12.93	14	16.35	16	10.34	11.20
7711	1.54	1.50	2.26	2	1.70	12.14	9	13.84	.....	19.70	15.50
7963	.....	.....	3.19	3	2.37	10.96	11	13.33	13	12.43	12.20
7835	.....	.....	.....	... .	1.90	14.02	14	15.92	16	11.22	11.20

No.	Name and Address of Manufacturer.	Name of Fertilizer.	Place of Sampling.
7968	J. A. Cranston Co., Newport, Del.	Raw Bone Super-Phosphate.	North East.....
7975	Cropley & Boteler, Washington, D. C.	Ammoniated Bone Super-Phosphate.	Croom.....
7738	William Davison & Co., Baltimore, Md.	H. G. Ammoniated Super-Phosphate.	Baltimore.....
7868	" " "	Pure Dissolved S. C. Bone.	Baltimore.....
7781	E. E. De Lashmut, Frederick, Md.	Fish and Bone.	Frederick.....
7782	" " "	S. C. Rock.	Frederick.....
7996	Detrick Fertz. & Chemical Co., Baltimore, Md	Ammoniated Bone Phosphate.	Baltimore.....
7762	" " "	B. & P. Special Fertilizer	Mt. Airy .....
7763	" " "	Dissolved S. C. Bone.	Mt. Airy. .....
7783	" " "	Farmer's Friend.	Frederick.....
7724	" " "	Farmer's New Method.	Baltimore.....
7761	" " "	Imperial Compound.	Mt. Airy .....
7794	" " "	Pure Ground Animal Bone Meal.	Silver Springs .....
7764	" " "	Royal Crop Grower.	Mt. Airy.....
7755	" " "	Soluble Bone Phosphate and Potash Fertilizer.	Henryton.....
7925	" " "	Special Formula.	Queen Anne .....
7757	" " "	Special Mixture.	Henryton.....
7756	" " "	Standard Potash Fertz.	Henryton.....
7765	" " "	Vegetator.	Mt. Airy.....
7807	L. F. Detrick, Baltimore, Md.	K. K. K. Kangaroo Komplete Kompound.	Baltimore.....
7760	" " "	Orchilla.	Mt. Airy.....
7858	" " "	16x4 Bone and Potash Mixture.	Baltimore.....
7839	" " "	Sockless and Shoeless Phosphate.	Leslie.....

No.	NITROGEN Calculated as AMMONIA.		POTASH, K_2O.		PHOSPHORIC ACID.					Comparative Value per Ton Found.	Comparative Value per Ton Guaranteed.
					Insoluble Found.	Available.		Total.			
	Found.	Guaranteed.	Found.	Guaranteed.		Found.	Guaranteed.	Found.	Guaranteed.		
7968	2.12	2	2.60	2	1.82	9.11	9	10.93	.....	$18.80	$17.80
7975	1.53	2	2.95	2	1.32	8.63	8	9.95	.....	16.70	16.00
7738	3.08	2.75	1.80	2.75	3.66	12.96	10	16.62	13	25.46	22.20
7868	.....	.....	.....	.....	1.12	13.81	14	14.93	16	11.05	11.20
7781	1.79	1	2.13	2	1.71	10.02	9	11.73	10	18.10	14.40
7782	....	.....	.....	.....	.94	15.21	14	16.15	.....	12.17	11.20
7996	1.55	1 50	2.24	2	1 58	9.82	9	11.40	.....	17.34	16.30
7762	.....	.....	2.95	3	2.41	12.01	12	14.42	.....	13.04	12.60
7763	.....	.....	.....	.....	1.31	14.51	14	15.82	15	11.61	11.20
7783	1.30	1	1.07	1	2.45	8.96	8	11.41	.....	14.91	12.80
7724	2.48	2.50	.....	.....	2.58	8.64	8	11.22	.....	17.11	16.30
7761	1.19	1	2.01	2	1.89	8.70	8	10.59	.....	15.04	13.80
7794	3.08	3	.....	.....	.....	.....	.....	26.28	.....	31.97	....
7764	2.08	2	1.83	2	2.01	13.80	8	15.81	9	22.67	16.40
7755	....	.....	1.92	2	1.38	11.07	10	12.45	12	11.06	10.40
7925	.....	.....	1.29	1	1.52	12.65	12	14.17	.....	11.71	10.60
7757	1.03	1	.94	1	1.39	8.08	8	9.47	.....	12.67	12.80
7756	1.46	1.50	4.92	5	1.76	6.89	6	8.65	.....	16.89	16.10
7765	2.46	2.50	2.69	2	2.52	10.01	10	12.52	.....	21.09	20 30
7807	2.01	2	3.13	3	3.04	9.67	8	12.71	.....	20.05	18.40
7760	.....	.....	..	.....	8.40	7.52	14	15.92	.....	.....	.....
7858	.....	.....	2.03	2	1.46	12.15	11	13.61	.....	12.04	11.30
7839	1.44	1	2.19	2	.66	8.11	8	8.77	.....	14.88	13.00

No.	Name and Address of Manufacturer.	Name of Fertilizer.	Place of Sampling.
7857	L. F. Detrick, Baltimore Md.	XX Tra Acid Phosphate	Baltimore.....
7752	J. W. Dorsey, Ellicott City. Md.	Ammoniated Phosphate.	Ellicott City.....
7751	" " "	Dorsey's Mixture (D)	Ellicott City.....
7873	Dudley & Carpenter, Baltimore, Md.	Ammoniated Bone Phosphate.	Baltimore.....
7874	" " "	Dissolved S. C. Rock.	Baltimore.....
7955	" " "	Soluble Bone Phosphate.	Baltimore.....
7917	" " "	Special Wheat Mixture.	Baltimore.....
8295	" " "	Special Wheat Mixture.	Hollywood.
7950	Edelen Bros., Baltimore, Md.	Special Wheat and Grass Mixture.	Baltimore.....
7953	B. Emory, Jr., Centreville, Md.	Special Formula.	Baltimore.....
7886	D. Englar, Jr., Medford, Md.	No. 3 Bone Phosphate.	Medford. .....
7884	Englar & Rinehart, Linwood, Md.	No. 1 Ammoniated Bone Phosphate.	Linwood.....
8264	" " "	No. 1 Ammoniated Bone Phosphate.	Unionville ..... (A. R. Dudderar.)
7883	" " "	No. 2 Ammoniated Bone Phosphate.	Linwood.....
8263	" " "	No. 2 Ammoniated Bone Phosphate.	Unionville ..... (A. R. Dudderar.)
7831	Eureka Fertilizing Co., Perryville, Md.	Alkaline Bone and Potash.	Rising Sun.....
7965	" " "	Farmer's Favorite Bone Phosphate.	Elkton.....
7964	" " "	Fish, Rock and Potash.	Elkton.....
7971	" " "	Grain and Grass Mixture.	Perryman.....
7824	" " "	Ground Bone.	Forest Hill.....
7967	" " "	Potato and Vegetable Fertilizer.	Elkton.....
7832	" " "	Prompt and Permanent Super-Phos.	Rising Sun.....
8089	Wash. Ewing, Landenberg, Pa.	Eclipse Raw Bone Super-Phosphate.	Port Deposit.....

No.	NITROGEN Calculated as AMMONIA.		POTASH, K_2O.		PHOSPHORIC ACID.					Comparative Value per Ton Found.	Comparative Value per Ton Guaranteed.
					Insoluble Found.	Available.		Total.			
	Found.	Guaranteed.	Found.	Guaranteed.		Found.	Guaranteed.	Found.	Guaranteed.		
7857	.....	.....	.....	.....	2 21	14.21	14	16.42	15	$11.37	$11.20
7752	1.53	1 50	1.68	1.50	1 51	8.35	8	9.86	.....	15.22	14.60
7751	2.20	2.25	5.03	4	1.85	9.05	9	10.90	.....	21.42	20.15
7873	1.02	1	2.03	2	1 49	8.50	8	9.99	.....	14.19	13.00
7874	.....	.....	....	.....	1.52	14.15	14	15.67	.....	11.32	11.20
7955	2.03	2	2.06	2	1.69	8.17	8	9.86	.....	17.00	16.00
7917	.....	.....	2.47	1.50	1.02	10.13	12	11.15	... ..	10.77	11.30
8295	....	.....	2.07	1 50	1.96	10.59	12	12.55	... ...	10.93	11.30
7950	1.31	1	2.18	2	1.20	8.62	9	9.82	11	15.21	14 80
7953	.....	.....	2.20	2	1.41	10.80	10	12.21	12	11.12	10.40
7886	1.53	1.25	2.32	2	1.28	9.81	9.50	11.09	11	17.23	15.85
7884	3.06	2.50	1.09	1.34	3.10	11.26	11.31	14.36	.....	22.77	20.15
8264	1.96	2.50	1.82	1 34	1.70	11.38	11.31	13.08	.....	19.76	20.15
7883	1.82	1.80	2.30	1.83	2.00	10.60	11.99	12.60	.....	19.16	19.22
8263	1.24	1.80	1.81	1.83	.78	10.98	11.99	11.76	.....	16.82	19.22
7831	.....	.....	2.36	2	1.72	12.19	10	13.91	12	12.45	10.40
7965	1.86	2	1.69	2	3.35	9.92	10	13.27	12	18.53	18.80
7964	.74	50	1.25	1	2.93	10.51	8	13.44	9	12.47	9.10
7971	1 18	1	2.13	2	3.55	9.70	9	13.25	10	16.79	14.40
7824	2.80	3	... .	.....	.....	.....	.....	26.10	23.00	29.84	.....
7967	1.53	2	2.39	4	2.63	8 60	8	11.23	10	16.63	18.80
7832	... .		.....	.....	2.87	13.22	14	16.09	15	10.58	11.20
8089	1.51	1.50	2.74	2	2.68	9.88	7	12.56	.....	18.22	13 90

No.	Name and Address of Manufacturer.	Name of Fertilizer.	Place of Sampling.
8088	Wash. Ewing, Landenberg, Pa.	Pure Raw Ground Bone..	Colora.....
7946	W. S. Farmer & Co, Baltimore, Md.	B. & P. Fertilizer.....	Baltimore.....
7865	" " "	Harvest Queen Phosphate.	Baltimore.....
7847	Farmer's Fertilizing Co., Westminster, Md.	Acid Phosphate.....	Cockeysville.....
7889	" " "	No. 1 Bone Phosphate....	Westminster.....
7890	" " "	No. 2 Bone Phosphate....	Westminster.....
7893	" " "	No. 3 Bone Phosphate....	Westminster.....
7891	" " "	XX Bone Phosphate.....	Westminster.....
7892	" " "	Carroll Bone Phosphate.	Westminster.....
7888	N. J. Gorsuch & Son, Westminster, Md.	Dissolved Raw Bone Phosphate.	Westminster.....
7887	" " "	No. 3 Bone XXXX.....	Westminster.....
7851	Griffith & Boyd, Baltimore, Md.	Ammoniated Bone Phosphate.	Baltimore.....
7802	" " "	Ammoniated Soluble Bone.	Baltimore.....
7876	" " "	Cereal Bone Plant Food.	Hampstead.....
7853	" " "	Harvest Queen Phosphate	Baltimore.....
7704	" " "	H. G. Acid Phosphate.	Baltimore.....
7924	" " "	Peerless Fertilizer.....	Easton.....
7804	" " "	Pure Dissolved Animal Bone	Baltimore.....
8300	" " "	Pure Dissolved Animal Bone.	Fishing Point..... (J. S. Jones.)
7754	" " "	Pure Fine Ground Bone.	Ellicott City.....
7806	" " "	Soft Ground Bone.....	Baltimore.....
7805	" " "	Spring Crop Grower.....	Baltimore.....
7854	" " "	XX Potash Manure.....	Baltimore.....

No.	NITROGEN Calculated as AMMONIA.		POTASH K_2O.		PHOSPHORIC ACID.					Comparative Value per Ton Found.	Comparative Value per Ton Guaranteed.
					Insoluble Found.	Available.		Total.			
	Found.	Guaranteed.	Found.	Guaranteed.		Found.	Guaranteed.	Found.	Guaranteed.		
8088	4.56	3	.. ..	.....	.....	.....	.....	22.03	.....	$26.27	.....
7946	.....	.....	2.32	2.50	2.02	10.19	10	12.21	.....	10.87	$10.80
7865	2.14	1.50	2.22	2.50	1.82	9.71	10	11.53	.....	19.08	17.60
7847	.....	.....	.....	.....	.97	14.52	14	15.49	.....	11.62	11.20
7889	2.17	2 50	3.22	2	1.37	9.13	9	10.50	11	19.41	19.30
7890	1.82	1.75	3.22	2	1.31	9.20	8	10.51	9	18.40	15.65
7893	1.35	1.50	2.78	2	1.88	9.40	8	11.28	9	16.98	14.90
7891	1.12	1	2.55	2	1.10	9.12	8	10.22	9	15.47	13.40
7892	.84	.50	2.49	1.50	2.01	7.58	7	9.59	8	11.47	8 80
7888	1.11	1.40	2.74	2.25	3.10	7.04	7	10.14	8	14.35	13.85
7887	.32	.25	2.16	1.25	3.17	6.46	8	9.63	9	8.92	8.85
7851	2.11	2	2.68	2	3.20	10.18	8	13.38	9	20.47	16.40
7802	.70	1	2.21	1 50	2.85	8.22	7	11.07	8	11.46	11.90
7876	1.13	1	2.37	2	2 31	8.03	8	10.34	10	14.71	13.80
7853	1.77	1.50	3.09	2.50	2.42	11.31	10	13.73	.....	20.68	17.60
7704	.....	.....	.....	.....	1.52	14.13	14	15.65	15	11.30	11.20
7924	.40	.25	2.70	2	2.30	7.78	8	10.08	9	10.61	9.35
7804	2.90	2.50	.....	.....	3.07	10.02	10	13.09	11	19.95	17.90
8300	1.10	2.50	.....	.....	4.05	10.80	10	14.85	11	15.72	17.70
7754	4.59	4	.....	.....	.....	.....	.....	17.31	21.50	26.66	.....
7806	3.65	3	.....	.....	.....	.....	.....	20.33	.....	24.74	.....
7805	1.51	2	4.41	4.50	3.32	7.03	6.50	10.35	8	17.30	17.40
7854	....	.....	5.64	5.50	1.86	11.77	10	13.63	11	15.43	13.70

No.	Name and Address of Manufacturer.	Name of Fertilizer.	Place of Sampling.
7977	Griffith & Turner Co., Baltimore, Md.	Animal Bone and Pot ash	Cheltenham.....
7814	" " "	Butcher's Bone Phosphate.	Glenarm.....
7979	" " "	Soft Ground Bone.....	Brandywine.....
7775	Hanover Bone Fertilizing Co., Hanover, Pa.	Blood and Bone Compound.	Walkersville.....
7774	" " "	Dissolved Bone Phosphate.	Walkersville.....
7776	" " "	Dissolved S. C. Rock....	Walkersville.....
7913	" " "	Excelsior Combine.....	Half Way.....
7773	" " "	Farmer's Crop Winner..	Walkersville.....
7912	" " "	Klondyke Especial for Potatoes and Tobacco	Half Way.....
7820	Hanway & Keen, Bel Air, Md.	H. & K. Special Mixture.	Fallston.....
7822	" " "	H. & K. Stand. Guano..	Bel Air.....
7827	S. M. Hess & Bros., Phila. Pa.	Keystone Bone Phosphate.	Conowingo.....
7926	" " "	Soluble Bone and Potash	Greensboro .....
7398	" " "	Soluble Bone and Potash	Greensboro ..... (Wm. Dulin.)
7862	J. W. Hickman, Russellville, Pa.	New Method Phosphate.	Baltimore.....
7758	W. H. Hood, Mt. Airy, Md.	Special Mixture for Wheat and Grass.	Mt. Airy.....
7723	Joshua Horner, Jr., & Co., Baltimore, Md.	Ammoniated Raw Bone Super Phosphate.	Baltimore.....
7720	" " "	Dissolved S. H. Bone Dust.	Baltimore.....
7722	" " "	Slaughter House Bone Dust.	Baltimore.....
7718	M. P. Hubbard & Co., Baltimore, Md.	Celebrated Dissolved Bone Phosphate.	Baltimore.....
7717	" " "	Excelsior Bone Phos....	Baltimore.....
8294	" " "	Excelsior Phosphate.....	Stone Wharf.....
7707	" " "	Farmers' Old Economy Phosphate.	Baltimore.....

No.	NITROGEN Calculated as AMMONIA.		POTASH, K_2O.		PHOSPHORIC ACID.					Comparative Value Per Ton Found.	Comparative Value per Ton Guaranteed.
					Insoluble Found.	Available.		Total.			
	Found.	Guaranteed.	Found.	Guaranteed.		Found.	Guaranteed.	Found.	Guaranteed.		
7977	1.11	2 50	2.19	1.50	3.75	8.07	10	11.82	11	$15.09	$19.40
7814	1.19	1.50	1.88	1.50	2.95	9.01	9	11.96	10	15.64	15.40
7979	2.78	3	.....	.....	.....	.....	.....	16.50	.....	20.97	.....
7775	1.19	1	1.81	2	2.33	9.37	8	11.70	.....	15.68	13.40
7774	.....	.....	1.81	2	1.33	10.42	8	11.75	.....	10.42	8.60
7776	.....	.....	.....	.....	1.47	14.66	14	16.13	15	11.73	11.20
7913	2.37	2	2.50	3	1.82	9.07	9	10.89	.....	19.41	18.41
7773	.81	.50	1.68	1.50	1 67	7.60	7	9.27	.....	10.52	8.80
7912	2.19	1.50	4.55	5	1.99	9.43	9	11 42	.....	21.35	18.90
7820	1.37	1	2.04	2	1 42	9.21	9	10.63	11	15.93	14.80
7822	2.40	2.50	3.03	3	1 56	8.60	8	10.16	.....	19.45	18.50
7827	1.09	1	1.41	1	1.95	8.02	8	9.97	.....	13.48	12.00
7926	.....	.....	2.02	2	.51	10.91	10	11.42	.....	10.85	10 20
7398	.....	.....	2.02	2	.51	10.84	10	11.35	.....	10.79	10.20
7862	1.22	1	4.97	5	1.01	9.48	9	10.49	.....	18.51	17.00
7758	1.42	1	1.94	2	1.02	9.01	9	10.03	.....	15.62	14.00
7723	2.47	2.50	3.05	2.50	2.27	9.81	8	12.08	.....	21.18	19.60
7720	2.81	2.50	.....	.....	2.00	12.41	12	14.41	.....	21.64	20.70
7722	6.64	6	.....	.....	.....	.....	.....	20.64	20	33.43	.....
7718	2.56	2.50	2.19	2	1.25	10.88	9	12.13	.....	21.25	18.50
7717	1.02	1	1.63	1.50	.57	9.55	8	10.12	9.50	14.47	13.10
8294	.96	1	2.37	1.50	1.48	8.25	8	9.73	9.50	14.09	13.10
7707	.71	.50	1.53	1 50	.77	8.70	8	9.47	10	10.77	9.80

No.	Name and Address of Manufacturer.	Name of Fertilizer.	Place of Sampling.
7710	M. P. Hubbard & Co., Baltimore, Md.	Harvest King for Wheat and Grass.	Baltimore
7700	" " "	H G. Soluble S. C. Phosphate.	Baltimore
7960	" " "	Soluble Bone and Potash for Wheat and Grass.	Crumpton
8316	T. R. Hubbard & Son. Chestertown, Md.	B. P. M.	Chestertown (C. R. Atkinson.)
7935	" " "	Imperial Compound	Chestertown
7358	" " "	Imperial Compound	Chestertown
7366	" " "	Imperial Compound	Worton
7934	" " "	Victor Phosphate	Church Hill
8262	" " "	Victor Phosphate	Sudlersville (R. B. Massey.)
7363	" " "	Victor Phosphate	Chestertown
7359	" " "	Victor Phosphate	Pomona
7367	" " "	Victor Phosphate	Chestertown
7859	Hubbard & Co., Baltimore, Md.	Climax Super-Phosphate.	Baltimore
7796	" " "	Columbia Gem Phosphate.	Baltimore
7864	" " "	Crescent Soluble Crop Producer.	Baltimore
7736	" " "	H. G. Soluble S. C. Phosphate.	Baltimore
7855	" " "	Oriental Phosphate for Wheat and Grass.	Baltimore
7737	" " "	Soluble Bone and Potash.	Baltimore
7860	" " "	Standard Bone Super-Phosphate.	Baltimore
7969	" " "	Wheat Growers' Jewel	North East
7843	Thomas C. Hunter, Whitehall, Md.	Extra A. B. Phos. for Potatoes, Wheat & Grass.	Whitehall
7910	C. M. Keedy, Keedysville, Md.	Money Saving Phosphate.	Keedysville
7849	S. L. Lamberd Co., Baltimore, Md.	Boss Fertilizer	Baltimore

No.	NITROGEN Calculated as AMMONIA.		POTASH, K_2O.		PHOSPHORIC ACID.					Comparative Value per Ton Found.	Comparative Value per Ton Guaranteed.
					Insoluble Found.	Available.		Total.			
	Found.	Guaranteed.	Found.	Guaranteed.		Found.	Guaranteed.	Found.	Guaranteed.		
7710	1.51	1.50	1.64	1.50	.53	10.15	9	10.68	10.50	$16.53	$15.60
7700	.....	.....	.....	.....	.37	14.53	14	14.90	.....	11.62	11.20
7960	.....	.....	1.59	2	1.12	10.76	10	11.98	12	10.42	10.40
8316	.....	.....	.....	.....	1.79	16.95	16	18.74	.....	13.56	12.80
7935	1.59	1.75	3.45	2.50	1.28	9.55	9	10.83	.....	18.28	17.55
7358	1.45	1	2.45	2.50	1.69	10.12	9	11.81	.....	17.60	15.30
7366	1.50	1.75	3.11	2.50	1.21	9.74	9	10.95	.....	17.83	17.55
7934	.94	1	2.16	3	.70	8.31	8	9.01	.....	13.57	14.00
8262	1.11	1	3.09	3	1 17	9.92	8	11.09	.....	16.81	14.00
7363	.90	1	2.15	3	1.50	7.99	8	9.49	.....	13.44	14.80
7359	.79	1	2.47	3	.98	7.35	8	8.33	.....	12.99	14.80
7367	.94	1	2.25	3	1.21	8.18	8	9.39	.....	13.73	14.80
7859	1.19	1	1.78	1.50	1.22	9.93	9	11.15	.....	15.77	14.30
7796	.76	.50	1.57	1.50	1.91	9.02	8	10.93	.....	11.45	9.80
7864	.....	.....	.....	.....	6.80	9.49	10	16.29	11	7.59	8.00
7736	.....	.....	.....	.....	1.85	14.23	14	16.08	.....	11.38	11.20
7855	1.12	1	1.63	1.50	1.52	9.79	9	11.31	.....	15.39	14.30
7737	.....	.....	2.20	2	4.08	10.04	10	14.12	11	11.05	10.30
7860	1.77	2	2.02	2	3.69	9.84	8	13.53	.....	18.65	16.40
7969	1.23	1.50	2.27	1.50	4.20	9.44	10	13.64	.....	17.08	16.40
7843	1.19	1.50	4.50	4	2.26	9.33	8	11.59	.....	18.30	16.90
7910	1.52	1.50	4.99	3	3.13	7.93	.....	11.06	.....	18.73	.....
7849	1.47	2	3.77	4.50	4 60	6.97	7	10.57	.....	16.99	17.90

No.	Name and Address of Manufacturer.	Name of Fertilizer.	Place of Sampling.
7371	S. L. Lamberd & Co., Baltimore, Md.	Boss Fertilizer	Glyndon (J. D. Geist.)
7880	Lazaretto Guano Co., Baltimore, Md.	Bone Compound	Hampstead
7360	" " "	Bone Compound	Pomona
7747	" " "	Crop Grower	Ellicott City
7978	" " "	Dissolved Bone Phosphate.	Cheltenham
7983	" " "	Dissolved Bone and Potash.	New Market
7878	" " "	Excelsior A. A. A. Fertilizer.	Hampstead
7746	" " "	F. and L. Mixture	Ellicott City
7863	" " "	Pure Ground Animal Bone Meal.	Baltimore
7879	" " "	Retriever Animal Bone Fertilizer.	Hampstead
7825	" " "	Special Potato Fertilizer.	Cardiff
7826	" " "	Special Tobacco and Potato Fertilizer.	Cardiff
7944	" " "	Special Wheat and Grass Fertilizer.	Baltimore
7731	Lister's Agr'l Chemical Works, Newark, N. J.	Animal Bone and Potash No. 2.	Baltimore
7732	" " "	Harvest Queen Phosphate.	Baltimore
7743	" " "	Special Crop Producer	Baltimore
7818	" " "	Special for Wheat	Long Green
7716	" " "	Standard Pure Bone Super-Phosphate.	Baltimore
7899	Joseph Lister, Chicago, Ill	Pure Bone Meal	Chewsville
8306	Logan Bros. & Co., Colora, Md.	Soluble Bone and Potash.	Colora
8305	" " "	Special for Wheat and Grass.	Colora
7976	P. Mann & Co, Washington, D C.	Raw Bone Meal	Linden
7898	The Maryland Fertilizing Co., Baltimore, Md.	Alkaline Bone	Smithsburg

No.	NITROGEN Calculated as AMMONIA.		POTASH K_2O.		PHOSPHORIC ACID.					Comparative Value per Ton Found.	Comparative Value per Ton Guaranteed.
					Insoluble Found.	Available.		Total.			
	Found.	Guaranteed.	Found.	Guaranteed.		Found.	Guaranteed.	Found.	Guaranteed.		
7371	3.09	2.50	5.71	5	5.79	6.78	7.50	12.57	12.50	$24.08	$22.00
7880	1.24	1.25	3.12	3	1.22	9.52	9	10.74	10	16.85	16.15
7360	1.28	1.25	3 30	3	1.13	9.64	9	10.77	10	17.23	16.15
7747	2.02	2	2.23	2	1.82	8.08	8	9.90	9	17.10	16.40
7978	.....	.....	.....	.....	1.01	14.67	14	15.68	15	11.74	11.20
7983	.....	.....	2.28	2	1.08	10.60	10	11.68	11	10.98	10.20
7878	1 18	1	1 23	1	1.46	8.88	7	10.34	8	14.23	11.40
7746	2.55	2 25	4.32	4	3.55	11.40	9	14.95	.....	24.79	21.55
7863	2.89	3	....	.....	.....	.....	.....	27.05	.....	32.25	.....
7879	2.55	2.25	4.39	4	2.67	11.74	9	14.41	13.50	24.85	21.55
7825	1.33	1	4.26	4	1.07	8.39	8	9.46	9	17.07	15.40
7826	3.37	3	3.51	3	2.04	9.26	9	11.30	.....	23.70	21.00
7944	1.61	1	4.18	4	1.29	8 40	8	9.69	9	17.93	15.40
7731	.....	.....	3.13	3	3.05	10.04	10	13.09	11	11.77	11.20
7732	1.46	1.50	2.11	2	3 65	9.68	9.50	13 33	11.50	17 63	16.80
7743	.96	1	1.19	1	3.27	7.14	7	10.41	8	12 52	11.40
7818	2.09	2	2.27	2	3.09	8.46	8	11.55	9.20	18 24	16.48
7716	1.59	2 85	2.02	1.50	3.20	10 26	10	13.46	12	18.53	20.95
7899	3.06	4.68	.....	.....	....	.....	.....	26.93	25.68	31.20	.....
8306	....	.....	2.33	2	1.08	10.06	10	11.14	.....	10.60	10.00
8305	2.53	2	2.23	2	4.40	7.95	8	12 35	.....	19.78	16.80
7976	4.43	5	.....	.....	....	.....	.....	21.97	.....	28 58	.....
7898	.....	.....	3 12	3	1.27	12.44	12	13.71	.....	13.32	12.60

No.	Name and Address of Manufacturer.	Name of Fertilizer.	Place of Sampling.
7798	The Maryland Fertilizing Co., Baltimore, Md.	Dissolved Animal Bone.	Baltimore.....
7745	" " "	Dissolved Phosphate....	Baltimore.....
7905	" " "	Dissolved S. C. Bone....	Hancock.....
7896	" " "	Globe Complete Manure Fertilizer.	Smithsburg.....
7897	" " "	Linden Super-Phosphate.	Smithsburg.....
7895	" " "	Magic Guano.....	Smithsburg.....
7810	F. Maynard, Baltimore, Md.	Special Vegetator.....	Baltimore.....
7932	Wm McKenny, Centreville, Md.	Soluble No. 3.....	Centreville.....
7931	" " "	Wm. McKenny's Compound.	Centreville.....
7772	F. Mehring, Bruceville, Md.	Acid Phosphate.....	Walkersville.....
7877	" " "	Dissolved Raw Bone	Hampstead .....
7902	" " "	Emmert's Half and Half	Williamsport .....
7771	" " "	General Crop Grower ...	Walkersville. .....
7777	" " "	Twenty-Six-Dollar Phosphate.	Bruceville.....
7725	Miller Fertilizing Co., Baltimore, Md.	Ammoniated Dissolved Bone Phosphate.	Baltimore .....
7872	" " "	Clinch Phosphate.....	Baltimore.....
7742	" " "	Dissolved Raw Bone.....	Ellicott City.....
7741	" " "	Ground Bone.....	Ellicott City.....
7706	" " "	Harvest Queen.....	Baltimore.....
7701	Miller Fertilizieg Co., Baltimore, Md	Hustler Phosphate.....	Baltimore .....
7708	" " "	S. C. Rock.....	Baltimore.....

No.	NITROGEN Calculated as AMMONIA.		POTASH, KO.		PHOSPHORIC ACID.					Comparative Value per Ton Found.	Comparative Value per Ton Guaranteed.
					Insoluble Found.	Available.		Total.			
	Found.	Guaranteed.	Found.	Guaranteed.		Found.	Guaranteed.	Found.	Guaranteed.		
7798	2.47	2.50	.....	.....	2.80	12.22	12	15.02	.....	$20.75	$19.50
7745	.....	.....	.....	.....	.61	14.87	14.50	15.48	.....	11.90	11.60
7905	.....	.....	.....	.....	1.62	15.07	14	16.69	14.50	12.06	11.20
7896	1.25	2	1.52	2	2.40	7.86	8	10.26	.....	14.09	16.00
7897	.. ..	.....	2.47	2	1.13	11.40	11	12.53	.....	11.82	10.80
7895	1.11	1	2.16	2	1.43	9.95	9	11.38	10.50	16.01	14.60
7810	2.52	2	2.18	2	1.41	9.50	8	10.91	9.50	19.80	16.60
7932	.61	.30	....	.....	1.87	11.29	12	13.16	.....	11.23	10.50
7931	1.65	1	1.31	1	2.48	10.03	10	12.51	.....	17.28	14.00
7772	.....	.....	.....	.....	1.41	16.73	14	18.14	.....	13.38	11.20
7877	2.11	1.50	.....	.....	.64	16.69	14	17.33	.....	23.28	18.90
7902	1.11	1	.....	.....	1.89	16.50	14	18.39	.....	20.59	17.00
7771	.68	.75	1.02	1	3.54	13.63	11	17.17	.....	14.67	12.05
7777	1.68	1.25	1.49	1	3.75	12.51	12	16.26	.....	20.54	17.15
7725	2.08	2	2.04	2	1.23	8.22	8	9.45	.....	16.99	16.80
7872	... .	.....	1.87	2	.65	10.07	10	10.72	.....	10.06	10.00
7742	2.47	2.50	.....	.....	2.78	12.25	11	15.03	14	20.77	19.70
7741	3.20	3	.....	.....	....	....	.....	17.49	.....	23.34	.....
7706	1.26	1.25	2.48	2.25	1.13	10.28	10	11.41	.....	16.99	16.60
7701	1.18	1	1.15	1	1.47	8.10	8	9.57	.....	13.38	12.80
7708	.....	.....	.....	... .	1.47	14.27	14	15.74	.....	11.42	11.20

No.	Name and Address of Manufacturer.	Name of Fertilizer.	Place of Sampling.
7702	Miller Fertilizer Co., Baltimore, Md.	Stand. Phosphate	Baltimore
7709	" " "	W. G. Phosphate	Baltimore
7882	Geo. W. Miller, Baltimore, Md.	Miller's Mixture	Loys
7845	Geo. R. Mowell, Glencoe, Md.	Dis. S. C. Rock	Monkton
7344	" " "	Stand. Bone Phos	Monkton
8282	The Nickerson Fertz. Co., Easton, Md.	Acid Phosphate	Sudlersville (Jas Merrick, Jr.)
7377	" " "	Acid Phosphate	Cecilton (Harry Rowan.)
7394	" " "	Acid Phosphate	Centreville. (T. R. L. Price.)
82 6	" " "	Acid Phosphate	Queen Anne
8238	" " "	Advance Guano	Elkton
8240	" " "	Alkaline Bone and Potash	Elkton
7390	" " "	Alkaline Bone and Potash	Easton (C. S. Winder.)
8011	" " "	Bone and Potash	Baltimore
8281	" " "	Bone and Potash	Sudlersville (Jas. Merrick, Jr.)
8217	" " "	English Mixture	Baltimore
8280	" " "	English Mixture	Sudlersville (Jas. Merrick, Jr.)
8239	" " "	Mixture	Elkton
7391	" " "	Mixture	Easton (C. S. Winder.)
7395	" " "	Pure Dis. Animal Bone	Centreville. (T. R. L. Price.)
8005	G. Ober & Sons Co, Baltimore, Md	Dis. Bone Phos	Baltimore
8138	" " "	Dis. Phos. and Potash	New Windsor
8259	" " "	Farmers' Mixture	Mechanicsville
8100	" " "	Farmer's Stand. Ammoniated Phos	Baltimore

No.	NITROGEN Calculated as AMMONIA.		POTASH, K_2O.		PHOSPHORIC ACID.					Comparative Value per Ton Found.	Comparative Value per Ton Guaranteed.
					Insoluble Found.	Available.		Total.			
	Found.	Guaranteed.	Found.	Guaranteed.		Found.	Guaranteed.	Found.	Guaranteed.		
7702	3.00	3	3.36	3	.91	8.79	8	9.70	.....	$21.51	$20.80
7709	.57	.50	1.32	1	1.35	7.46	7	8.81	.....	9.27	8.50
7882	2.01	2	2.01	2	1.63	9.08	8	10.71	.....	17.77	16.00
7845	.....	.....	.....	.....	1.40	14.09	14	15.49	.....	11.27	11.20
7844	1.92	2	1.00	2	2.93	10.81	10	13.74	11	18.74	18.40
8282	.....	.....	.....	.....	2.10	14.72	14	16.82	.....	11.79	11.20
7377	.....	.....	.....	.....	1.90	14.39	14	16.29	.....	11.51	11.20
7394	.....	.....	.....	.....	2.30	16.58	14	18.88	.....	13.26	11.20
8206	.....	.....	.....	.....	2.25	14.10	14	16.35	.....	11.28	11.20
8238	1.01	1	1.72	1	2.42	9.43	8	11.85	9	15.15	12.40
8240	.....	.....	2.09	2	1.00	11.04	10	12.04	11	11.12	10.20
7390	.....	.....	1.56	2	1.64	12.82	10	14.46	.....	12.15	10.00
8011	1.02	1	1.32	1	2.46	9.92	7	12.38	8	15.28	11.40
8281	.....	.....	3.15	3	1.52	11.48	11	12.96	.....	12.61	11.80
8217	1.22	1	2.49	2	1.69	9.99	8	11.68	.....	16.82	13.00
8280	.94	1	2.80	3	1.47	9.99	9	11.46	.....	16.20	15.00
8239	.57	.50	2.03	2	2.02	10.80	8	12.82	.....	15.35	11.50
7391	.58	.50	1.93	2	2.21	11.18	8	13.39	.....	13.05	9.90
7395	2.21	2	.....	.....	4.09	11.71	12.00	15.80	.....	19.98	18.00
8005	.....	.....	.....	.....	1.21	16.32	14	17.53	.....	13.06	11.20
8138	.....	.....	2.57	2	3.32	13.28	11	16.60	.....	13.85	10.80
8259	1.33	1	2.45	2	6.50	10.94	9	17.44	.....	19.98	14.00
8100	2.19	2	2.80	2	2.45	11.16	9	13.61	.....	21.51	17.00

No.	Name and Address of Manufacturer.	Name of Fertilizer.	Place of Sampling.
8002	G. Ober & Sons Co., Baltimore, Md.	G. E. Thawley's Special Wheat Formula No. 1.	Baltimore
8140	" " "	Independent Ammoniated Super Phos.	New Windsor
8065	" " "	Pure Raw Bone Meal	Baltimore
8219	" " "	Sol. Ammoniated Super Phos.	Baltimore
8001	" " "	Spec. Ammoniated Dis. Bone.	Baltimore
8153	Packer's Union Fertz. Co., New York.	Acidulated Bone	Hancock
8163	" " "	American Wheat and Rye Fertilizer.	Half Way
8035	" " "	Md. Banner Wheat Grower.	Taneytown
8013	" " "	Penna. Banner Wheat Grower.	Baltimore
8096	Patapsco Guano Co., Baltimore, Md.	Baltimore Sol. Phos	Cockeysville
8208	" " "	Baltimore Sol. Phos	Hillsboro
8097	" " "	Coon Brand Guano	Cockeysville
8133	" " "	Dis. Raw Bone	Union Bridge
8168	" " "	Dis. S C. Bone	Baltimore
8176	" " "	Early Trucker	Snow Hill
7339	" " "	Fish	Cambridge (S. L. Byrn.)
8098	" " "	Grain & Grass Producer.	Cockeysville
8105	" " "	H. G. Bone and Potash	Baltimore
8126	" " "	Pure Dis. S. C. Bone	Fowblesburg
8166	" " "	Sea Gull Guano	Baltimore
8170	" " "	Sol. Bone and Potash	Baltimore
8099	" " "	Spec. Wheat Compound.	Cockeysville
8167	" " "	Woodall's Alkaline Bone.	Baltimore

No.	NITROGEN Calculated as AMMONIA.		POTASH, K_2O.		PHOSPHORIC ACID.					Comparative Value per Ton Found.	Comparative Value per Ton Guaranteed.
					Insoluble Found.	Available.		Total.			
	Found.	Guaranteed.	Found.	Guaranteed.		Found.	Guaranteed.	Found.	Guaranteed.		
8002	.88	.75	2.25	2	3.97	10.27	9	14.24	.....	$13.90	$11.45
8140	1.13	1	3.28	1	3.93	9.90	8	13.83	.....	18.14	12.00
8065	4.32	4	.....	.....	.....	.....	.....	21.73	21	.....	.....
8219	2.30	2	2.39	2	2 03	10.73	8	12.76	.....	20.83	16.00
8001	2.06	2	2.35	2	1.68	11.97	9	13.65	.....	21.17	17.00
8153	.....	.....	.....	.....	.33	14.97	14	15.30	.....	11.98	11.20
8163	1.10	1	2.22	1	1.33	8.50	8	9.83	.....	14.55	12.40
8035	.....	.....	2.24	2	.79	10.88	10	11.67	.....	11.10	10.20
8013	.....	.....	.88	.50	1.11	10.05	10	11.16	.....	9.14	8.70
8096	.....	.....	1.98	2	.92	11.28	11	12.20	.....	11.18	11.00
8208	.....	.....	2.01	2	.99	11.38	11	12.37	.....	11.31	11.00
8097	1.04	1	3.28	3	.93	9.50	9	10.43	.....	16.27	15.40
8133	2.80	2.50	.42	1	2.61	13.34	12	15.95	.....	23.20	20.50
8168	.....	.....	.....	.....	.52	14.56	14	15.08	15	11.65	11.20
8176	4.63	5	5.74	5	1.27	9.17	7	10.44	.....	29.31	27.00
7389	10.48	11	.....	.....	.....	....	.....	8.03	.....	29.97	.....
8098	1.21	1	4.25	4	.97	9.22	8	10.19	.....	17.49	15.80
8105	.....	.....	5.23	5	.82	10.86	11	11.68	.....	14.08	13.80
8126	.....	.....	.....	.....	.62	15.22	14	15.84	.....	12.18	11.20
8166	1.23	1	2.25	1	1.62	8.68	8	10.30	.....	15.27	12.40
8170	.....	.....	2.40	2	1.05	11.16	10	12.21	.....	11.54	10.20
8099	2.35	2.25	2.72	2.50	2.17	11.27	9	13.44	.....	21.91	20.25
8167	.....	.....	2.04	2	.99	12.16	12	13.15	13	11.97	11.80

No.	Name and Address of Manufacturer.	Name of Fertilizer.	Place of Sampling.
8132	Pearre & Clemson, Union Bridge, Md.	Farmer's Choice.....	Union Bridge.....
8130	" " "	No. 1 Bone Phosphate..	Union Bridge.....
8131	" " "	Union Bridge Favorite.	Union Bridge.....
8076	Piedmont-Mt. Airy Guano Co., Balto., Md.	Caroline Mixture for all Crops.	Baltimore.....
8224	" " "	Dis. S. C. Bone	Baltimore.....
8220	" " "	Insula Guano for all Crops.	Baltimore.....
8101	" " "	Levering's Excelsior....	Baltimore.....
8218	" " "	P. P. P. Piedmont Potato Producer.	Baltimore.....
8250	" " "	Pure Raw Bone Mixture.	Brandywine.....
8079	" " "	Royal Ammo'td Bone & Potash.	Baltimore.....
8078	" " "	Soluble Bone & Potash.	Baltimore.....
8083	R. H. Pollock, Baltimore, Md.	Ammo'td Bone Phos...	Cardiff.....
8103	" " "	Dis. Animal Bone.....	Baltimore.....
8169	" " "	Dis. S. C. Bone.....	Baltimore.....
8122	" " "	Owl Brand Guano.....	Hamstead.....
8031	" " "	Sol. Bone Phos.....	Woodbine.....
8082	" " "	Spec. Wheat Grower....	Cardiff.....
8209	" " "	Victor Bone Phosphate..	Queenstown.....
8027	The Ramsburg Fertz. Co., Frederick, Md.	Alkaline Phos.....	Monrovia .....
8285	" " "	Alkaline Phos.....	Bartholows. ..... (J. R. Hilton.)
8025	" " "	Ammo'td Bone Phas....	Monrovia-... .....
8026	" " "	Dis. Bone Super Phos..	Monrovia.....
7373	" " "	Dis. Bone Super Phos..	Tuscarora..... (J. N. White & Bros)

No.	NITROGEN Calculated as AMMONIA.		POTASH, K_2O.		PHOSPHORIC ACID.					Comparative Value per Ton Found.	Comparative Value per Ton Guarantee.
					Insoluble Found.	Available.		Total.			
	Found.	Guaranteed.	Found.	Guaranteed.		Found.	Guaranteed.	Found.	Guaranteed.		
8132	.98	.875	2.08	1.75	1.26	10.40	8.50	11.66	9.50	$15.92	$13.26
8130	1.45	1.50	2.21	1.75	2.13	8.65	8.50	10.78	9.50	16.06	15.15
8131	1.48	1.25	2.35	2.25	.80	9.19	8	9.99	9	16.30	14.40
8076	1.55	1	2.39	2	1.41	10.60	8	12.01	9	18.20	13.40
8224	.....	.....	...	.....	2.12	14.47	14	16.59	.....	11.58	11.20
8220	.43	.37	1.26	1	1.68	12.07	7	13.75	.....	12.55	7.71
8101	1.17	1	1.23	1	1.23	9.32	8	10.55	10	14.55	12.80
8218	2.68	3	4.52	6	1.28	9.68	5	10.96	7	22.75	19.80
8250	1.29	1.25	1.51	1.50	7.04	8.51	8	15.55	.....	16.71	13.25
8079	1.06	1.30	4.28	3	1.53	8.14	6	9.67	7	16.21	13.10
8078	.....	.....	2.74	2	2.06	8.48	8	10.54	.....	9.93	8.40
8083	2.04	2	2.58	2	1.75	8.38	10	10.13	11	17.78	18.40
8103	2.99	2.50	.....	.....	2.61	14.41	12	17.02	.....	24.42	19.90
8169	....	.....	.....	.....	2.73	15.09	14	17.82	.....	12.07	11.20
8122	.63	.50	2.17	1.50	.83	7.87	7	8.70	8	10.33	8.80
8031	.....	.....	2.15	2	1.14	11.39	11	12.53	12	11.49	11.00
8082	1.08	1	2.09	2	1.26	9.73	9	10.99	10	15.56	14.40
8209	.....	.....	2.49	1	1.44	9.60	9	11.04	10	10.46	8.40
8027	.....	.....	1.81	2	4.02	10.99	10	15.01	12	11.40	10.20
8285	.....	.....	2.04	2	3.21	8.69	11	11.90	12	9.63	11.00
8025	1.08	1	1.74	2	3.27	9.47	10	12.74	12	15.76	15.40
8026	....	.....	.....	.....	3.22	13.93	14	17.15	16	11.14	11.20
7373	.....	.....	.....	.....	2.96	14.13	14	17.09	16	11.30	11.20

No.	Name and Address of Manufacturer.	Name of Fertilizer.	Place of Sampling.
7386	The Ramsburg Fertilizer Co., Frederick, Md.	Dissolved Bone	Keedysville (W. D. Coffman)
8024	" " "	Excelsior Plant Food	Monrovia
8036	" " "	Half and Half	Frederick
7375	" " "	Muriate of Potash	Tuscarora (J. N. White & Bros.)
7374	" " "	Nitrate of Soda	Tuscarora (J. N. White & Bros.)
8055	" " "	Old Virginia Compound.	Sykesville
8121	" " "	Rock and Potash	Mt. Airy
8278	" " "	Rock and Potash	Kemptown (J. N. Clay)
8288	" " "	Tankage	Reid (J. F. Strite).
7372	" " "	Tankage	Tuscarora (J. N. White & Bros.)
8049	The Rasin - Monumental Co., Baltimore, Md.	AmmoniatedSuper-Phosphate.	Ellicott City
8038	" " "	Arundel Complete	Washington Grove.
8044	" " "	Bone and Potash	Ellicott City
8048	" " "	Dissolved Bone	" "
8045	" " "	Empire Guano	" "
8046	" " "	I X L Fertilizer	" "
8051	" " "	Pure Ground Bone	" "
8254	" " "	Rasin's Acid Phosphate.	Mechanicsville
8222	" " "	Soluble Bone Phosphate and Potash.	Baltimore
8213	" " "	Special Bone and Potash Fertilizer.	Chestertown
8301	" " "	Special Bone and Potash.	Easton (T. W. Martin).
8302	" " "	Special Bone and Potash.	Easton (T. W. Martin).
8175	Redden, Pardee & Co., Pocomoke, Md.	Special Potato Guano	Pocomoke

No.	NITROGEN Calculated as AMMONIA.		POTASH, K_2O.		PHOSPHORIC ACID.					Comparative Value per Ton Found.	Comparative Value Per Ton Guaranteed.
					Insoluble Found.	Available.		Total.			
	Found.	Guaranteed.	Found.	Guaranteed.		Found.	Guaranteed.	Found.	Guaranteed.		
7886	2.20	2.50	.....	.....	6.33	11.39	12	17.72	.....	$20.52	$19.50
8024	2.21	2.25	1.90	2	2.06	11.92	9	13.98	.....	21.27	17.75
8036	1.66	1	2.19	1	2.24	10.97	10	13.21	12	19.04	14.80
7375	.....	.....	37.15	.....	....	.....	.....	.....	.....	.....	.....
7374	18.90	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
8055	1.67	1.50	2.21	2	1.41	10.96	9	12.37	.....	18.74	16.30
8121	.....	.....	2.31	3	3.28	12.14	.....	15.42	12	12.70	.....
8278	.....	.....	2.58	3	2.52	11.55	12	14.07	.....	12.32	12.60
8288	7.64	.....	.....	.....	.....	.....	.....	14.50	.....	27.04	.....
7372	10.03	9.50	.....	.....	.....	.....	.....	6.10	.....	27.73	.....
8049	1.14	1	1.09	1	1.00	8.04	8	9.04	.....	12.95	12.00
8038	1.79	2	2.27	2	.72	9.45	8	10.17	.....	17.38	16.00
8044	.....	.....	1.88	2	1.77	10.84	10	12.61	.....	10.90	10.00
8048	2.70	2	.....	.....	2.25	9.49	10	11.74	.....	18.49	16.00
8045	1.92	2	1.68	2	.83	9.29	8	10.12	.....	17.06	16.00
8046	1.30	1	3.24	3	.62	9.65	9	10.27	.....	17.04	15.00
8051	2.84	4	.....	.....	.....	.....	.....	26.49	.....	30.90	.....
8254	.....	.....	.....	.....	1.62	14.15	14	15.77	.....	11.32	11.20
8222	.....	.....	1.74	2	1.40	11.36	10	12.76	.....	11.11	12.00
8213	.....	.....	2.76	3	.81	12.12	12	12.93	.....	12.62	12.60
8301	.....	.....	2.69	3	.80	12.29	12	13.09	.....	12.68	12.60
8202	.....	.....	7.86	5	1.02	10.18	12	11.20	.....	16.20	14.60
8175	3.90	4	.....	.....	2.78	6.38	6	9.16	8	19.19	18.40

No.	Name and Address of Manufacturer.	Name of Fertilizer.	Place of Sampling.
8230	Jno. S. Reese & Co., Baltimore, Md.	Crown Phosphate and Potash.	Masseys.....
8033	Reindollar & Co., Taneytown, Md.	Ammoniated Bone Phosphate.	Taneytown.....
8034	" " "	Fish Phosphate.....	Taneytown.....
7383	" " "	Muriate of Potash.....	Taneytown (W. H. Flickinger.
8134	W. G. Rinehart & Co., Union Bridge, Md.	No. 2 Bone Phosphate..	Union Bridge.....
8135	" " "	No. 3 Bone Phosphate..	Union Bridge.....
8020	Isaac Robinson, Baltimore, Md.	Dissolved Bone.....	Mt. Airy.....
8019	" " "	Fish, Rock and Potash..	Mt Airy.....
8199	" " "	H. G. Soluble Phosphate	Easton.....
8214	" " "	Pennsylvania Special....	Chestertown.....
8021	" " "	Peerless Phosphate.....	Mt. Airy..... .....
8018	" " "	Potashed Bone.....	Mt. Airy.....
8276	" " "	Potashed Bone.....	Mt. Airy (Wesley Harrison).
7361	" " "	Potashed Bone	Lankfort .....
8012	" " "	Special Wheat and Grass Phosphate.	Baltimore.....
8017	" " "	Standard Dissolved Bone Phosphate.	Mt. Airy.....
8092	W. E. Robinson, Bel Air, Md.	Grain and Fruit Grower.	Singerly .....
8094	" " "	Vegetable Fertilizer.....	Singerly.....
8093	" " "	Wheat Fertilizer.....	Singerly.. .....
8298	The Scott Fertilizer Co., Elkton, Md.	Bone and Potash.	Crumpton (Aldey Clements).
8243	" " "	Elkhead Super-Phos....	Elkton.....
8171	" " "	Pure Ground Raw Bone	Baltimore.....
8233	" " "	Soluble Bone and Potash	Fredericktown.....

No.	NITROGEN Calculated as AMMONIA.		POTASH, K_2O.		PHOSPHORIC ACID.					Comparative Value per Ton Found.	Comparative Value per Ton Guaranteed.
					Insoluble Found.	Available.		Total.			
	Found.	Guaranteed.	Found.	Guaranteed.		Found.	Guaranteed.	Found.	Guaranteed.		
8230	.....	.....	2.23	2	.49	11.90	11	12.39	13	$11.85	$11.20
8033	1.06	.50	1.93	1	.85	6.66	7	7.51	.....	12.11	11.00
8034	2.26	2	2.96	2	1.24	9.87	8	11.11	.....	20.10	16.00
7383	....	.....	44.64	52	.....	....	.....	....	.....	.....	.....
8134	2.19	1.55	2.15	2.50	1.14	10.91	8.27	12.05	.....	20.09	15.42
8135	1.55	.75	2.47	3.21	1.01	9.44	8.09	10.45	.....	16.96	13.55
8020	2.41	2.50	....	.....	3.25	11.23	11	14.48	14	19.76	19.70
8019	.80	.25	1.22	.50	1.90	5.51	5	7.41	.....	8.41	5.25
8199	.....	.....	....	.....	1.89	15.62	14	17.51	.....	12.50	11.20
8214	2.04	2	5.45	5	1.43	8.73	7	10.16	.....	20.87	18.60
8021	.80	.50	2.17	1.50	1.62	8.59	8	10.21	.....	11.76	9.40
8018	.....	.....	1.90	2	1.23	11.32	10	12.55	.....	10.21	10.00
8276	.....	.....	2.75	3	1.40	12.52	12	13.92	.....	13.05	12.60
7361	.....	... .	2.11	2	1.90	9.78	10	11.68	.....	10.31	10.00
8012	2.26	2	2.37	2	1.12	10.03	8 50	11.15	11	19.63	17.50
8017	1.34	1	2.46	2	1.68	10.59	10	12.27	.....	17.74	15.00
8092	.....	.....	2.27	2	1.37	10.84	10	12.21	.....	11.21	10.00
8094	2.81	2	.96	2	1.38	10.17	9	11.55	.... ..	20.11	17.00
8093	1.87	2	2.15	2	1.10	9.73	8	10.83	.....	17.93	16.00
8298	....	.....	3.62	3	1.28	14.83	14	16.11	.....	15.99	14.20
8243	1.37	1	1.54	1	1.16	13.07	9	14.23	.....	19.18	13.00
8171	5.04	4	.....	.....	.....	.....	.....	21.87	22	27.95	.....
8233	.....	.....	5.39	3	1.26	13.47	12	14.73	.....	16.42	12.60

No.	Name and Address of Manufacturer.	Name of Fertilizer.	Place of Sampling.
8299	The Scott Fertilizer Co., Elkton, Md.	Special Mixture.....	Crumpton (Alday Clements).
8244	" " "	Standard Phosphate.....	Elkton.....
8225	" " "	Sure Growth Super-Phosphate.	Baltimore.....
8110	" " "	Tip Top and Potash.....	Baltimore.....
8231	" " "	Tip Top Soluble Bone...	Fredericktown.....
8147	Charles Shaeffer, Westminster, Md.	Big Gun.....	Westminster.....
8146	" " "	Governor.....	Westminster.....
8143	" " "	H. G. Acid Phosphate...	Westminster.....
8145	" " "	Leader.....	Westminster.....
8148	" " "	Pride.....	Westminster.....
8144	" " "	Super A.....	Westminster.....
8245	Sharpless & Carpenter, Philadelphia, Pa.	Dissolved Bone Phos....	Aberdeen.....
8247	" " "	No. 1 Bone Phosphate...	Aberdeen.....
8310	M. L. Shoemaker & Co., Philadelphia. Pa.	Swift and Sure Guano...	Ridgely (J. M. Short)
8227	Smith, Rouse & Webster, Bel Air, Md.	Dissolved S. C. Rock....	Baltimore.....
8081	" " "	Pure Bone Meal.....	Bel Air.....
8249	" " "	Pure Dissolved Bone....	Aberdeen.....
8054	The Southern Fertilizer Co., York, Pa.	Ammoniated Diss. Bone	Hoods Mills.....
8052	" " "	Diss. Bone Phosphate...	Hoods Mills.....
8053	" " "	Dissolved Bones.....	Hoods Mills.....
8042	" " "	Export Bone and Potash.	Washington Grove.
8039	" " "	Farmer's Choice Brand.	Washington Grove.
8260	" " "	Ox Brand Bone.	Highland (Albert Nichols).

No.	NITROGEN Calculated as AMMONIA.		POTASH, K_2O.		PHOSPHORIC ACID.					Comparative Value per Ton Found.	Comparative Value per Ton Guaranteed.
					Insoluble Found.	Available.		Total.			
	Found.	Guaranteed.	Found.	Guaranteed.		Found.	Guaranteed.	Found.	Guaranteed.		
8299	2.29	2.25	5.11	5	4 47	10.78	12	15.25	.....	$22.55	$23.75
8244	1.62	1 50	2.39	2	1 98	11.12	8	13.10	.....	19.16	14.50
8225	2.02	2	2.43	2	1.46	13.22	10	14.68	.....	22.29	18.00
8110	.....	.....	2.07	2	1.18	11.38	11	12.56	.....	11.41	10.80
8231	.....	.....	.....	.....	.89	15.27	14	16.16	.....	12.22	11.20
8147	2.06	2	2.28	2	.83	10.66	10	11.49	.....	19.45	18.00
8146	1.67	1.50	2.83	2.50	.41	10.32	9	10.73	.....	18.32	16.00
8143	.....	.....	.....	.....	1.08	14.71	14	15.79	.....	11.77	11.20
8145	1.07	1	1.98	1.50	.72	8.99	8	9.71	.....	14.47	12.50
8148	2.67	2.50	2.40	2	1.10	11.27	11	12.37	.....	22.12	21.30
8144	.97	.75	1.53	1	.67	8.78	8	9.45	.....	13.49	9.85
8245	2.51	2.50	5.79	6	1.18	8.83	8	10.01	.....	22.62	21.50
8247	2.02	2	2.27	2	1.82	8.01	8	9.83	.....	17.07	16.00
8310	2.38	2	5.38	5	4.53	8.54	8	13.07	.....	22.87	19.00
8227	.....	.....	.....	.....	1.70	14.96	14	16.66	.....	11.97	11.20
8081	3.34	.....	.....	.....	....	.....	.....	25.41	25.60	29.89	.....
8249	2.39	2.50	....	.....	3.45	10.27	12	13.72	.....	18.82	20.30
8054	2.01	2	2.59	2.50	.65	11.35	10	12.00	.....	20.23	18.50
8052	.....	.....	.....	.....	.42	16.27	14	16.69	.....	13.02	11.20
8053	2.17	2	...	.....	2.04	10.78	10	12.82	.....	18.11	16.00
8042	2.09	2	2.39	2	10.15	7.03	.....	17.18	.....	19.75	.....
8039	1 13	1	2.62	2	.97	9.26	9	10.23	.....	15.66	14.00
8260	4.40	4	....	.....	....	....	.....	20.54	.....	25.53	.....

No.	Name and Address of Manufacturer.	Name of Fertilizer.	Place of Sampling.
8289	The Southern Fertilizer Co., Baltimore, Md.	Ox Brand	Keysville (Edw. Shorb)
8040	" " "	Pure Ground Bone	Washington Grove
8041	" " "	Soluble Bone and Potash	Washington Grove
8157	J. W. Stonebraker & Son, Hagerstown, Md.	Bone Meal	Hagerstown
8155	" " "	Diss. Bone Phos	Hagerstown
8156	" " "	Special	Hagerstown
8137	Jos. A. Stouffer, New Windsor, Md.	Butcher House Phos	New Windsor
8136	" " "	Soluble Wheat Crower	New Windsor
8006	W. H. Street & Co., Baltimore, Md.	Ammd. Diss. Bone Phos	Baltimore
8015	" " "	Special Crop Grower	Baltimore
8124	Susquehanna Fertz. Co., Baltimore, Md.	Alkaline Bone Phos	Hampstead
8229	" " "	Soluble Bone and Potash	Ingleside
8297	" " "	Special Mixture	Wye Mills (T. H. Callahan).
7378	" " "	Special Mixture	Queenstown (C S Embert).
8123	" " "	Superior Rock Phos	Hampstead
8010	" " "	Susquehanna Bone Phos	Baltimore
8022	" " "	Susqueh'a Crop Grower	Mt. Airy
8009	" " "	XXV Phosphate	Baltimore
8087	Swift & Co., Chicago, Ill.	Pure Bone Meal	Rising Sun
8016	E. A. Talbott, Ellicott City, Md.	Ammd. Bone Phos	Ellicott City
8043	" " "	Grain and Grass Grower	Ellicott City
8228	H. S. Taveau & Co., Baltimore, Md.	Bone Mixture	Baltimore
8255	" " "	Diss. S. C. Bone	Spencer's Wharf

No.	NITROGEN Calculated as AMMONIA.		POTASH, K_2O.		PHOSPHORIC ACID.					Comparative Value per Ton Found.	Comparative Value per Ton Guaranteed.
					Insoluble Found.	Available.		Total.			
	Found.	Guaranteed.	Found.	Guaranteed.		Found.	Guaranteed.	Found.	Guaranteed.		
8289	.....	.....	.....	.....	1.41	14.11	14	15.52	.....	$11.29	$11.20
8040	4.04	4	.....	.....	.....	.....	.... ..	21.12	.....	25.60	.....
8041	.....	.....	2.22	2	.16	11.79	11	11.95	.....	11.68	10.80
8157	4.84	4.50	... ...	.....	...	.....	.....	20.43	.... ..	30.02	.....
8155	2.02	2	2.87	2.50	1.02	11.36	10	12.38	.....	20.70	18.50
8156	2.33	2.25	4.35	4	.86	12.12	11	12.98	.....	23.80	21.75
8137	1.61	.75	3.65	2.50	1.44	9.90	8	11.34	9	18.96	13.15
8136	1.15	.25	3.81	2.50	1.23	10.05	7.50	11.28	9.50	17.80	.....
8006	1.56	1.50	2.22	2	1 15	9.71	9	10.86	.....	17.07	16.10
8015	1.13	1	1.01	1	1.11	9.10	8	10.21	.....	13.94	12.80
8124	.....	.....	2.52	2	2.95	9.75	10	12.70	.....	10.91	10.40
8229	.....	.....	2.37	2	.51	10.24	10	10.75	....	10.66	10.40
8297	.....	.....	5.34	5	1.02	13.55	12	14.57	... .	16.18	14.60
7378	.....	.....	5.95	5	.75	12.81	12	13.56	.....	16.35	14.60
8123	.....	.....	.....	.....	1.34	14.34	14	15.68	.....	11.67	11.20
8010	1.88	2	1.90	2	4.19	8.24	8	12.43	.....	17.46	16.60
8022	1.28	1	1.39	1	4.42	8.25	7	12.67	.....	15.25	11.60
8009	1.64	1	1.64	1	2.93	8.98	8	11.91	.....	16.71	12.80
8087	3.14	3	.....	.....	.....	....	.....	24.59	25	31.71	.....
8016	1.18	1	2.35	2	3.35	7.95	8	10.30	10	15.18	13.80
8043	1.93	2	4.53	3	3.55	7.74	9	11.29	10	19.48	18.40
8228	1.15	1.25	2.45	2.50	1.77	8.42	10	10.19	.....	15.03	16.25
8255	.....	.....	.....	.....	2 25	13.65	14	15.90	.....	10.92	11.20

No.	Name and Address of Manufacturer.	Name of Fertilizer.	Place of Sampling.
8223	H. S. Taveau.....	Fish Mixture.....	Baltimore.....
8252	" " "	Pure Ground Bone Meal	Brandywine.....
8109	" " "	Special Wheat Mixture..	Baltimore.....
8292	" " "	Special Wheat Mixture..	Hollywood.....
8253	" " "	Wheat & Grass Comp'd..	Hughesville.....
8151	D. A. Thomas, Hagerstown, Md.	Bone Mixture.....	Spielman's.....
8150	" " "	Dissolved Bone.....	Hagerstown.....
8159	" " "	Dissolved Bone.....	Hagerstown.....
8158	" " "	Farmers' Mixture.....	Hagerstown.....
8160	" " "	Fine Raw Bone.....	Hagerstown.....
8161	" " "	Soluble Bone & Potash..	Hagerstown.....
8154	I. P. Thomas & Sons' Co., Phila., Pa.	Alkaline Bone.....	Hancock.....
8164	" " "	Raw and Dissolved Bone	Halfway.....
8203	Wm. B. Tilghman Co., Salisbury, Md.	Bone Tankage Mixture..	Salisbury.....
8204	" " "	Fish Mixture No. 1.....	Salisbury.....
8234	Turner & Son, Betterton, Md.	Turner "B" Bone Phos for Wheat and Grass.	Betterton.....
8216	" " "	Special Mixture for Wheat and Grass.	Baltimore.....
8235	" " "	Wheat and Grass Grower	Betterton.....
8119	Tygert-Allen Fertz. Co., Phila., Pa.	Amm'd Bone Phos	Baltimore.....
8185	" " "	Diss. S. C. Rock.....	Snow Hill.....
8181	" " "	5 Per Ct. Guano.....	Snow Hill.....
8182	" " "	7 Per Ct. Guano.....	Snow Hill.....
8186	" " "	Popular Phosphate.....	Snow Hill.....

No.	NITROGEN Calculated as AMMONIA.		POTASH, K_2O.		PHOSPHORIC ACID.					Comparative Value per Ton Found.	Comparative Value per Ton Guaranteed.
					Insoluble Found.	Available.		Total.			
	Found.	Guaranteed.	Found.	Guaranteed.		Found.	Guaranteed.	Found.	Guaranteed.		
8223	1.32	1.25	3.39	2.50	1.35	8.87	10	10.22	.....	$16.76	$17.05
8252	2.91	3	.....	.....	.....	.....	.....	16.57	.....	22.08	.....
8109	.....	.....	2.73	2.50	1.02	10.05	10	11.07	.....	10.97	10.70
8292	.....	.....	2.57	2.50	.63	12.11	10	12.74	.....	12.39	10.70
8253	.....	.....	2.55	2.50	1.00	11.18	11	12.18	.....	11.69	13.10
8151	2.07	2	2.84	2	.88	10.32	10	11.20	.....	19.72	18.00
8150	2.54	2.50	4.69	4	2.24	11.97	10	14.21	.....	25.18	21.50
8159	2.73	2.50	.....	.....	1.34	16.14	13	17.48	16	24.87	21.70
8158	1.80	1.50	2.00	1.50	.96	10.07	8	11.03	.....	17.85	14.00
8160	4.63	4	.....	.....	.....	.....	.....	22.70	.....	31.18	.....
8161	.....	.....	2.58	2.50	.58	11.35	11	11.93	.....	11.78	13.10
8154	.....	.....	2.19	2	2.62	9.85	10	12.47	.....	10.59	10.40
8164	2.36	2	.....	.....	9.37	9.19	9	18.56	18	20.02	19.00
8203	2.64	2.50	2.05	2	2.21	9.71	8	11.92	10	20.56	18.30
8204	3.10	3	2.01	2	1.40	9.75	7	11.15	.....	21.62	18.00
8234	2.22	1.75	2.60	2.50	1.88	11.73	10	13.61	.....	21.74	17.75
8216	1.22	2.50	2.62	3.50	1.45	8.49	10	9.94	.....	15.35	21.00
8235	1.58	1	2.70	2	.53	9.24	9	9.77	.....	16.89	14.00
8119	1.13	1	2.30	1	1.72	8.58	8	10.30	10	14.96	12.80
8185	.....	.....	.....	.....	.53	15.43	14	15.96	.....	12.34	11.20
8181	4.48	5	5.02	5	1.35	7.25	7	8.60	8	26.25	27.40
8182	7.01	7	5.80	5	1.16	6.20	6	7.36	.....	33.48	32.41
8186	1.18	1	2.36	2	1.27	8.09	8	9.36	.....	14.50	13.00

No.	Name and Address of Manufacturer.	Name of Fertilizer.	Place of Sampling.
8179	Tygert-Allen Fertz. Co., Phila., Pa.	Standard Bone Phos....	Snow Hill.....
8184	" " "	Star Guano.....	Snow Hill.....
8183	" " "	Star Soluble Bone and Potash.	Snow Hill.....
8030	J. Tyson & Son, Frederick, Md.	Ammoniated Super-Phosphate.	Monrovia.....
8029	" " "	Half-and-Half.....	Monrovia.....
8028	" " "	Special Mixture.....	Monrovia .....
8272	Va.-Carolina Chemical Co., Richmond, Va.	Acid Phosphate.....	New Windsor.....
8061	" " "	Dissolved Bone.....	Mt. Airy.....
8057	" " "	Guaranteed 14 Per Cent Acid Phosphate.	Sykesville.....
8062	" " "	H. G. Ammoniated Fertilizer.	Mt. Airy.....
8060	" " "	Standard Bone and Pot ash	Mt. Airy.....
8271	" " "	Standard Bone and Pot ash.	New Windsor ..... (E. E. Lovell.)
8283	" " "	Standard Bone and Pot-ash.	Bartholows. ..... (J. R. Hilton.)
8059	W. H. D. Warfield, Sykesville, Md.	Wheat and Grass Mixture	Sykesville.....
8191	S. L. Webster & Son, Cambridge, Md.	Bone and Potash.....	Cambridge .....
8194	" " "	No. 1 Ammoniated Bone Phosphate.	Cambridge .....
8189	" " "	No. 2 Ammoniated Bone Phosphate.	Federalsburg.....
8192	" " "	Rock and Muriate of Pot-ash.	Cambridge.....
8193	" " "	Times Brand.	Cambridge.....
8188	M. E. Weeeler & Co., Rutland, Vt.	Electrical Diss. Bone.	Hurlock.....
8023	" " "	Royal Wheat Grower.	Monrovia.....
8187	" " "	Wheat and Clover.	Hurlock.....
8207	Williams & Clarke Fertz. Co., New York.	Acorn Brand Acid Phos	Ridgely.....

No.	NITROGEN Calculated as AMMONIA.		POTASH, K_2O.		PHOSPHORIC ACID.					Comparative Value per Ton Found.	Comparative Value per Ton Guaranteed.
					Insoluble Found.	Available.		Total.			
	Found.	Guaranteed.	Found.	Guaranteed.		Found.	Guaranteed.	Found.	Guaranteed.		
8179	2.13	2	2.27	2	2.06	9.11	8	11.17	.....	$18.59	$16.00
8184	2.38	2.50	3.13	3	1.82	8.43	8	10.25	9	19.43	18.90
8183	.....	.....	2.01	2	2.67	9.66	10	12.33	.....	10.27	10.00
8030	1.52	1.50	2.02	2	1.47	11.42	12	12.89	.....	18.59	18.50
8029	1.14	1.50	2.01	1	1.32	11.77	12	13.09	.....	17.73	17.50
8028	.97	1	1.25	1	1.78	9.19	8	10.97	.....	14.06	12.00
8272	.....	.....	.....	.....	.70	15.18	14	15.88	.....	12.14	11.20
8061	2.17	2	.....	.....	2.73	11.63	10	14.36	.....	19.23	16.00
8057	.....	.....	.....	.....	1.06	14.10	14	15.16	.....	11.28	11.20
8062	1.88	2	2.17	2	.52	9.99	10	10.51	.....	18.01	18.00
8060	.....	.....	2.08	2	.87	10.40	10	11.27	.....	10.57	10.00
8271	.....	.....	1.93	2	1.99	11.32	10	13.31	.....	11.38	10.00
8283	.....	.....	1.65	2	1.39	11.71	10	13.10	.....	11.40	10.00
8059	1.18	1	1.16	1	1.16	9.11	8	10.27	.....	14.27	12.00
8191	.....	.....	2.64	.....	4.64	8.97	.....	13.61	.....	10.75	.....
8194	3.28	3.50	4.23	4.82	3.90	9.43	9.48	13.33	.....	25.06	24.80
8189	2.65	2	2.19	2	.62	7.90	8	8.52	.....	18.29	16.00
8192	.....	.....	4.12	3	3.07	9.48	12	12.55	.....	12.31	12.73
8193	.88	.59	3.29	3.25	3.17	7.40	9	10.57	.....	12.48	14.02
8188	.....	.....	.....	.....	.42	14.99	14	15.41	.....	11.99	11.20
8023	1.14	1	2.38	2	1.21	8.35	8	9.56	.....	14.63	13.40
8187	.....	.....	2.23	2	.40	11.37	10	11.77	.....	11.41	10.20
8207	.....	.....	.....	.....	1.91	14.06	14	15.97	15	11.25	11.20

No.	Name and Address of Manufacturer.	Name of Fertilizer.	Place of Sampling.
8201	Williams & Clark Fertilizer Co., New York.	Diss. Bone and Potash..	Easton.....
8304	" " "	Rock and Potash.....	Ridgely..... (T. W. Jones)
8221	" " "	Special Diss. Bone and Potash.	Baltimore.....
8205	" " "	Special Formula No. 2..	Easton.....
8317	" " "	Universal Phos.....	Greensboro..... (C. L. Jarrell)
7384	" " "	Universal Phos.....	Goldsboro..... (W. L. Cooper)
8172	F. M. Wilson, Pocomoke, Md.	Favorite Truck Fertz....	Pocomoke.....
8215	The R. A. Wooldridge Co., Balto., Md.	16x4 Bone and Potash...	Baltimore.....
8211	" " "	Champion Giant Phos...	Centreville.....
8090	" " "	Chieftain Bone Stock...	Port Deposit.....
8200	" " "	Florida Acid Phos.....	Easton.....
8107	" " "	Liberty-Bell Potash Mixture.	Baltimore.....
8116	" " "	Pure Raw Bone.....	Baltimore.....
8115	" " "	Triumph Pure Bone Phosphate.	Baltimore.....
8007	The Zell Guano Co. Balto., Md.	Ammoniated Bone Super-Phosphate.	Baltimore.....
8004	" " "	Diss. Bone Phosphate....	Baltimore.....
8102	" " "	Electric Phosphate.....	Baltimore.....
7388	" " "	S. C. Rock.....	Cambridge..... (S. L. Byrn).
8032	" " "	Little Giant.....	Woodbine.....
8080	" " "	Pure Ground Raw Bone	Baltimore.....
8008	" " "	Zell's Economizer.....	Baltimore.....

No.	NITROGEN Calculated as AMMONIA.		POTASH K_2O.		PHOSPHORIC ACID.					Comparative Value per Ton Found.	Comparative Value per Ton Guaranteed.
					Insoluble Found.	Available.		Total.			
	Found.	Guaranteed.	Found.	Guaranteed.		Found.	Guaranteed.	Found.	Guaranteed.		
8201	.....	.....	2.40	2	1.92	11.71	10	13.63	.....	$12.15	$10.00
8304	.....	.....	4.55	5	1.75	11.27	12	13.02	.....	14.27	14.60
8221	.....	.....	4.01	4	1.41	10.89	10	12.30	.....	13.00	12.00
8205	1.06	1	3.77	3	1.94	10.08	9	12.02	.....	17.81	15.00
8317	2.04	2	3.13	2	1.40	11.11	8	12.51	.....	20.92	16.00
7384	1.90	2	2.89	2	2.30	9.96	8	12.26	.....	19.47	16.00
8172	2.92	3	9 23	6	1.62	8.62	7	10.24	8	27.26	22.40
8215	.....	.....	2.57	2	1.23	11.18	10	12.41	11	11.76	10.20
8211	1.07	1	2.29	2	1.12	8.88	9	10.00	.....	14.83	14.00
8090	1.99	2	2.44	2	1.20	8.61	9	9.81	.....	17.50	17.60
8200	.....	.....	....	.....	1.88	14.37	14	16.25	.....	11.50	11.20
8107	.....	.....	2.97	2	.43	12.76	12	13.19	13	13.27	11.80
8116	4.54	4.50	.....	.....	.....	.....	.....	22.77	.....	27.18	.....
8115	1.60	1.50	4.16	4	1.17	8.80	8	9.97	.....	18.23	17.30
8007	2.37	2	2.33	2	.86	9.00	8	9 86	.....	18.78	16.00
8004	.....	.....	....	.....	.27	16.18	14	16.45	16	12 94	11.20
8102	.....	.....	1.95	2	1.92	10.82	10	12.74	12	10.99	10.40
7388	.....	.....	.....	.....	1.10	15 03	14	16.13	16	12.02	11.20
8032	1.22	1	1.19	1	1.43	7.82	7	9.25	.....	13.24	11.00
8080	4.70	4	.....	.....	.....	.....	.....	23.65	20	29.55	.....
8008	1.19	1	1.97	2	2.16	9.23	8	11 39	10	15.63	13.80

Table Showing Mechanical Analysis of Ground Bone.

(The Chemical Analysis is Given in Preceding Table.)

No.	Name and Address of Manufacturer.	Name of Fertilizer.	Fine Less than 1-50 inch.	Fine-Medium 1-25 to 1-50 inch.	Medium 1-25 to 1-12 inch.	Coarse Larger than 1-12 inch
7721	Armour Fertz. Works, Chicago, Ill.	Bone Meal	63	20	14	3
7705	The Balto. Pulv. Co., Baltimore, Md	Pure Animal Raw Bone Meal..	45	22	26	7
7755	Baugh & Sons' Co., Baltimore, Md.	Bone Meal	60	27	13	0
7823	Chem. Co. of Canton, Baltimore, Md.	Pure Raw Bone	31	22	35	12
7794	Detrick Fertz. and Chem. Co., Baltimore. Md.	Pure Ground Animal Bone Meal.	68	20	11	1
7824	Eureka Fertz. Co., Perryville, Md.	Ground Bone	62	16	20	1
8088	Washington Ewing, Landenberg, Pa.	Pure Raw Ground Bone	32	19	29	20
7754	Griffith & Boyd, Baltimore, Md	Pure Fine Ground Bone	56	22	22	0
7806	" " " "	Soft Ground Bone	36	25	37	2
7979	Griffith & Turner Co., Baltimore, Md.	Soft Ground Bone	58	16	19	7
7722	Joshua Horner, Jr., & Co., Baltimore, Md.	Slaughter-House Bone Dust	45	26	28	1
7863	Lazaretto Guano Co., Baltimore, Md.	Pure Ground Animal Bone Meal.	67	22	11	0
7899	Jos. Lister, Chicago, Ill.	Pure Bone Meal	56	24	19	1
7976	P. Mann & Co, Washington, D.C.	Raw Bone Meal,	49	19	21	11
7741	Miller Fertz. Co, Balto., Md.	Ground Bone	60	16	23	1
8051	Rasin-Monumental Co.. Baltimore, Md.	Pure Ground Bone	62	22	15	1
8171	The Scott Fertz. Co, Elkton, Md.	Pure Ground Raw Bone	31	20	38	11
8081	Smith, Rouse and Webster, Bel Air, Md.	Pure Bone Meal	53	18	29	0
8040	Southern Fertz. Co., York, Pa	Pure Ground Bone	42	19	19	20
8260	" " " "	Ox Brand Bone	50	15	23	12
8157	J. W. Stonebraker & Son, Hagerstown, Md.	Bone Meal	55	22	23	0
8087	Swift & Co., Chicago, Ill.	Pure Bone Meal	80	13	7	0
8252	H. S. Taveau & Co, Baltimore, Md.	Pure Ground Bone Meal	64	19	11	6
8160	D. A. Thomas, Hagerstown, Md.	Fine Raw Bone	45	40	15	0
8116	The R. A. Wooldridge Co, Baltimore, Md.	Pure Raw Bone	33	20	29	18
8080	The Zell Guano Co, Baltimore, Md.	Pure Ground Raw Bone	35	20	45	0

NOTES AND CORRESPONDENCE.

Sample No. 7934 was obtained by the sampling agent of the College from goods in the wagon of Mr. John R. Lewis, of Church Hill, Md., who was on his way home from the factory where he had made the purchase, when he was met by our sampling agent. The manufacturer afterwards protested against the analysis of this sample, claiming that the goods had not been sold for the regular brand, "Victor," and asking that a sample taken at the factory, at his request, be analyzed as a fair sample. We could not agree to this and had the sampling agent obtain as many samples of the goods as possible from farmers who had purchased the goods, our agent drawing the samples in each case, and all that were found on the trip were analyzed. The following samples were obtained: No. 7359 from W. B. Nourse, Pomona; No. 7363 from Mr. Edward Robinson, Chestertown and 7367 from a farm near Chestertown—name not taken.

The sample No. 8262, was taken and sent in by Mr. R. B. Massey, as mentioned in the letter of the manufacturer below. It is claimed that the manufacturer was not informed, prior to the delivery of the goods, that they were to be sampled and analyzed.

Mr. Lewis wrote us that he got his fertilizer for the regular brand, "Victor."

The correspondence in regard to these samples is given below:

Chestertown, Md., Oct. 6th, 1900.

H. B. McDonnell, State Chemist, College Park, Md.

Dear Sir:—Your young man was here a few days ago drawing samples of the various brands of fertilizer and imformed us that he had drawn a sample of our Special Mixture at Centreville, had also drawn samples of Imperial and Peerless, as well as a sample of Victor that he stated he drew from the wagon of Mr. John S. Lewis, of Queen Anne's county, and I write you concerning the latter. This goods that Mr. Lewis bought was a lot of goods that was batched and made in November, '99. In the first place the fish that was used in this goods was not as high grade as that we bought and used this year, and another thing, I imagine that some of the nitrogen had escaped by laying in bulk and gone off in the form of gas, and under these circumstances we sold Mr. Lewis this goods for $2.00 per ton less than we receive for our Victor, and the Victor, as made this fall, was a goods that would test better than that sold Lewis, and nine-tenths of our Victor made this fall was like sample No. 2 that the young man drew. He intimated that the only goods that would be analyzed was the sample of Mr. Lewis', and if such is the case, it would do me a great injustice. The fish that we bought this year tested unusually high, and the Victor we made, in which this fish entered, would show up some better.

I therefore write to ask, in justice to us, if you will kindly analyze sample No. 2, as to publish the other would do us a great injustice. I can furnish you names of fifty men, if you desire, who have used part of these same goods like sample No. 2.

Kindly let me hear from you in regard to the matter, and oblige,

Yours very respectfully,
T. R. HUBBARD & SON,
W. W. H.

College Park P. O., Md., Oct. 16th, 1900.

Messrs. T. R. Hubbard & Son, Chestertown, Md.

Dear Sirs:—Your letter of the 6th instant was duly received. I have delayed answering till after the return of the inspector, who drew the samples to which you refer.

In answer, I will state, that our policy is to get our samples outside of factories in order to relieve the manufacturer of any suspicion of having on hand sample lots for analysis. If you have been selling "Victor" of an inferior grade and we sample it, I do not see how you can blame any one but yourself. We certainly will analyze the sample that was drawn on the road, and probably will not analyze the one obtained at the factory. This is our regular rule in such cases.

Yours truly,
H. B. McDONNELL,
State Chemist.

Chestertown, Md., Feb. 1st, 1901.

H. B. McDonnell, Esq., College Park, Md.

Dear Sir.—Having received the analysis of several determinations made of our "Victor" a few days ago, I went down yesterday to College Park to talk with you concerning. The analysis submitted are tests made of a lot of goods that we carried over from the fall of '99, which was sold at a reduced price, inasmuch as I supposed that some of the nitrogen or ammonia had gone off in the form of gas by lying in bulk so long. I told your representative, Mr. Straughn this last fall when he came drawing samples. The goods in question was sold at several dollars less per ton than the price. I gave not only your representative, but wrote you, stating that the fish we had used in the fall of 1900, was not only a little higher grade, but that the goods being freshly made would go over 1 per cent. of ammonia. I have understood, indirectly, that you have made several determinations of the new goods as made and sold the past year, and as you did not submit these samples, I went to see you. It would, therefore, be a gross injustice to me to publish the analysis of the goods carried over which had been in my factory for at least fifteen months, and this I can prove, not only by my superintendent, but by my men. I wrote you last fall and told you I could give you the names of scores of people who had used our

"Victor" as made last fall. I heard incidentally that Mr. R. B. Massey, of Sudlersville, had had the goods analyzed. You also analyzed some of our dissolved Tennessee phosphate which was sold as "B-P-M" or best phosphate made, and this also does not appear to be in line for publication. Mr. Straughn and Mr. Laughlin will understand thoroughly the facts in the case and can make a full explanation to you, and whilst I do not think you should publish any analysis of the goods carried over that was sold at the reduced price, I am willing that you publish one of these, provided you publish the determination made of the new goods.

Please let us hear from you at once in regard to the matter, and thanking you in advance for a prompt reply, I am,

Yours very respectfully,

T. R. HUBBARD & SON.

To the above letter we replied that all of the samples analyzed would be published.

Four out of the five samples of "Victor" above mentioned, contain less than one per cent. of ammonia and should, according to the schedule for calculating the "comparative value," be given the rock value of 4 cts. per pound for the available phos. acid and 1 ct. per pound for the insoluble phos. acid in the calculation of "comparative value." However, as one of the samples contains over 1 per cent. of ammonia, and all are guaranteed to contain that amount, and to make them all strictly comparable, the regular schedule for high-grade mixed fertilizer has been used in each case.

SUPPLEMENTARY LIST OF FERTILIZERS LICENSED FOR SALE IN MARYLAND.

For the Year Ending February 1st, 1901.

THE ARMOUR FERTILIZER WORKS, BALTIMORE, MD.
Special Compound.

BALTIMORE PULVERIZING CO., BALTIMORE, MD.
Penniman's Special Guano.

A. D. BIRELY & SON, LADIESBURG, MD.
Ammoniated Bone Phosphate.
Dissolved Bones.
Special Mixture for Wheat and Grass.

D. BLOCHER & CO., GETTYSBURG, PA.
Ammoniated Soluble Bone Phosphate.
Dissolved Bone Phosphate.
Dissolved Raw Bone and Potash.
High-Grade Super Phosphate.

BRADLEY FERTILIZER CO., NEW YORK.
Niagara Phosphate.

BRUMFIELD & FOSTER, COLORA, MD.
Acid Phosphate and Potash.
Ammoniated Bone Phosphate.
Hard Times Ammoniated Phosphate.
High-Grade Acid Phosphate.

CHEMICAL CO., OF CANTON, BALTIMORE, MD.
Eagle Phosphate.
Patron's Bone Mixture.
Pure Raw Bone.
Soluble Alkaline Bone.

E. A. CLENDENNIN & BRO., COLORA, MD.
F. F. V. Ammoniated Phosphate.
N. S. Natural Standard Ammoniated Phosphate.

DETRICK FERTILIZER & CHEMICAL CO., BALTO., MD.
Farmer's New Method Phosphate.
B. & P. Special Fertilizer.

E. E. DeLASHMUT, FREDERICK, MD.
Fish and Bone.
S. C. Bone.

J. W. DORSEY, ELLICOTT CITY, MD.
Dorsey's Mixture (D).

EDELEN BROS., BALTIMORE, MD.
Special Tobacco Guano.
Special Wheat and Grain Fertilizer.

EUREKA FERTILIZER CO., PERRYVILLE, MD.
Grain and Grass Mixture.

WASHINGTON EWING, LANDENBERG, PA.
Pure Raw Bone.

GRIFFITH & BOYD, BALTIMORE, MD.
Harvest Queen Phosphate.
XX Potash Manure.

HUBBARD & CO., BALTIMORE, MD.
Columbia Gem Phosphate.
Crescent Soluble Crop Producer.
Day's Ammoniated Bone Phosphate.
Farmer's IXL Super Phosphate.
High-Grade Soluble S. C. Phosphate.
Oriental Phosphate for Wheat and Grass.
Soluble Bone and Potash.
Standard Bone Super Phosphate.
Wheat Growers' Jewel.

M. P. HUBBARD & CO., BALTIMORE, MD.
Celebrated Dissolved Bone Phosphate.
Excelsior Bone Phosphate.
Farmers' Acme.
Farmers' Old Economy.

C. M. KEEDY, KEEDYSVILLE, MD.
Money Saving Phosphate.

LISTER'S AGRICULTURAL CHEM. WORKS, BALTO., MD.
Special Crop Producer.
Special Fertilizer for Wheat.

LOGAN BROS. & CO., COLORA, MD.
Soluble Bone and Potash.
Special for Wheat and Grasss.

MAYFIELD & BROWN, WASHINGTON, D. C.
V. A.

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Compound.
No. 1 D. Phosphate.
Soluble No. 3 Phosphate.

MILLER FERTILIZER CO., BALTIMORE, MD.
Dissolved Raw Bone.
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NICKERSON FERTILIZER CO., EASTON, MD.
Alkaline Bone and Potash.
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G. OBER & SONS CO., BALTIMORE, MD.
Independent Ammoniated Super Phosphate.
Riddle's Wheat and Grass Food.
Soluble Ammoniated Super Phosphate of Lime.

ORNDORFF & TRUXTON, WASHINGTON, D. C.
Ammoniated Bone Super Phosphate.

PATAPSCO GUANO CO., BALTIMORE, MD.
Woodall's Alkaline Bone.

PIEDMONT-MT. AIRY GUANO CO., BALTIMORE, MD.
Caroline Mixture for all Crops.
Dissolved S. C. Bone.
Piedmont Bone Meal.

R. H. POLLOCK, BALTIMORE, MD.
Special Wheat Grower.

RAMSBURG FERTILIZER CO., FREDERICK, MD.
Half and Half.

REINDOLLAR & CO., TANEYTOWN, MD.
Ammoniated Bone Phosphate.
Fish Mixture.

ISAAC ROBINSON, BALTIMORE, MD.
Fish, Rock and Potash.

W. E. ROBINSON, BEL AIR, MD.
Grain and Fruit Grower.

SHARPLESS & CARPENTER, PHILADELPHIA, PA.
Dissolved Bone Phosphate.
No. 1 Bone Phosphate.

SMITH, ROUSE & WEBSTER, BEL AIR, MD.
Special Formula No. 1.
Special Formula No. 2.

E. A. TALBOTT, ELLICOTT CITY, MD.
Grain and Grass Grower.

D. A. THOMAS, HAGERSTOWN, MD.
Dissolved Bone.
Dissolved Bone.
Farmers' Mixture.
Fine Raw Bone.
Soluble Bone and Potash.

H. S. TAVEAU, BALTIMORE, MD.
Dissolved S. C. Bone.
Special Compound No. 2.
Special Wheat Mixture.

W. B. TILGHMAN & CO., SALISBURY, MD.
Ammoniated Bone and Potash.

TURNER & SON, BETTERTON, MD.
"B" Bone Phosphate.
Wheat and Grass Grower.

TYGERT-ALLEN FERTILIZER CO., PHILADELPHIA, PA.
Ammoniated Bone Phosphate.
Popular Phosphate.
Prairie Bone Meal.
Star Guano.
Star Soluble Bone and Potash.

J. TYSON & SON, FREDERICK, MD.
Dissolved South Carolina.
Half and Half Super Phosphate.
Special Mixture.

VA.-CAROLINE CHEMICAL CO., RICHMOND, VA.
14 Per Cent. Acid Phosphate.
Bone and Potash.
High-Grade Ammoniated Fertilizer.

W. H. D. WARFIELD, SYKESVILLE, MD.
Wheat and Grass Mixture.

S. L. WEBSTER & SON, CAMBRIDGE, MD.
Bone and Potash.
Rock and Muriate of Potash.

WILLIAMS & CLARK FERTILIZER CO., NEW YORK.
Dissolved Bone and Potash.
Rock and Potash.
Special Formula No. 2.

THE R. A. WOOLRIDGE CO., BALTIMORE, MD.
Pure Raw Bone.

THE ZELL GUANO CO., BALTIMORE, MD.
The Little Giant.

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